## ADDRESS ON TECHELET

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It is a truism of our times that events move so rapidly, new phenomena develop so swiftly, it is often hard to keep abreast of the many changes which follow one upon the other. A number of months ago, I encountered two colleagues at the convention of the Orthodox Union, and noticed that they were wearing techelet. Upon inquiring, I heard about new things happening in this field, and I took an interest in it, for "meHashem yatza hadavar", it seems to me we can almost perceive the Hand of Destiny. It seemed appropriate to me, therefore, to devote not only my own shiur, but also those of the other speakers, Rabbi Tendler and Rabbi Schachter, to this theme. This address will include not only halacha, but also a little bit of chemistry, a little bit of marine biology, a little bit of archaeology, for all of these are necessary as the realities upon which we erect the halachic structure.

## MADA

The biblical verse directs us: Venatnu al hakanaf p'til techelet, you have to add to the lavan, the white, a p'til techelet, a thread of techelet, and this becomes tzitzit.

Where does this techelet come from? It comes from the hilazon. What is the hilazon? In a Braitha in Menachot¹ we find (hebrew) that "its body resembles the sea [in color], and biologically it is similar to a fish (domeh ledag).² It emerges once in seventy years, and with its blood, one dyes the techelet, and therefore, it is very expensive." According to many Rishonim this does not mean once in seventy years, but rather once in seven years, and actually it is a phrase used to denote something which is not common, only an occasional occurrence. The Rambam does not quote either—seven or seventy—time, and the Rav HaRashi, Rav Yitzchak Halevi Herzog in his book writes that the phrase merely comes to indicate that techelet was rare. Even in the days when techelet was used, it was difficult to obtain, and therefore it was expensive.

Furthermore, when the Gemara says "dam" it does not mean "blood", but refers rather to some type of secretion from this particular creature, which was used for the dyeing process of techelet. What happens is that the snail secretes from its gland a clear mucus which, upon exposure to oxygen and sunlight, and

<sup>&</sup>lt;sup>1</sup> The top of p.44a.

<sup>&</sup>lt;sup>2</sup> Rashi, Shabbat 74b calls it a "small fish or worm [tola'at].

under the influence of various enzymes, changes take place, and it turns from clear to whitish, from that to a pus-yellow hue, and then to blue-green and then purple and finally to techelet, which is defined as a violet blue.<sup>3</sup>

Now this procedure was known all through the biblical period and through the tekufat hamishnah, the era of the Mishnah. When did the Jewish people stop having techelet? From the sources that we have--questions that people asked about techelet, and correspondence of this sort-- we assume that use of techelet came to an end sometime during the tekufat haGeonim, the Geonic period, some time in the eighth century. At that time, techelet was lost. Others say it happened even earlier, about fifteen hundred years ago. We know from the texts themselves that it was not only a

Based on various prophetic verses, and on references in the Talmud, we can postulate that techelet was known and used throughout that periods until after the completion of the Talmud, which would bring us at least until the demise of Ravina, as noted above.

In his book about techelet, Sefunei Temunei Chol, p.10, the Radziner Rebbe argues that even after the Talmudic period, there must have been techelet, for various Geonim wrote treatises on the laws of techelet, and it is accepted that the Geonim never wrote theoretical treatises, only about mitzvot which were current in their times. There are many others who have tried to pinpoint the

Description of the color of techelet varies: In Shemot 25:4, Rashi terms it "yarok", green; and the Gemara in Berachot 9b, as well as Responsa Divrei Menachem I 3:3, cite a text in the Yerushalmi indicating that its color "resembles grass." In his Sefer Sefunei Temunei Chol, the Radziner cites sources which say that it is close to "black" (i.e., dark), as does the Rambam. In his introduction to Seder Mo'ed, Tiferet Yisrael describes it as "purple." And of course, there is the famous dictum of the Gemara in Menachot 41: "techelet resembles the sea, and the sea resembles the sky, and the sky [color] resembles the Heavenly Throne."

<sup>4</sup> R. Yehoshua of Kutna, in his Responsa Yeshuot Malko 1:3, estimates that techelet ended during the last generation of Amoraim, in the days of the latter Ravina, who died 4234 A.M., around 474 C.E. But Ein Hatechelet, p. 112b, assumes that it happened during the lifetime of the author of Halachot Gedolot, due to the difficulties of the exile and because of governmental decrees. From the writings of the Gaon Sar Shalom in Responsa of the Geonim, Sha'arei Teshuva #159, it is evident that they no longer had techelet in his time. As a matter of fact, the Ha'amek Sheilah (Shelach, No.6) demonstrates that even one hundred years before that, in the days of R. Achai Gaon, there already was no techelet.

matter of time, it was a matter of geography as well. Some people lived in areas where they had more access to techelet, some people had less access. The Smag<sup>5</sup> says that it was not lost! We stopped using it, but it was not lost. The creature still exists in the Mediterranean.<sup>6</sup>

About one hundred years ago, there was one man, Rav Gershon Henoch Leiner, the Hasidic Rebbe of Radzin, who renewed techelet. This was a very interesting personality. The Radziner Rebbe was a complete non-conformist. He disregarded the superficialities, eschewing the usual garb of the Rebbe; he did away with shamashim and gabbaim; he was poly-lingual, a man who spoke many languages. He was a world traveler, a poet, a man who understood many aspects of medicine—and with all that, he was a tremendous talmid chacham and he had thousands of Hasidim throughout Poland. He claimed that he had discovered the real Hilazon, it turned out to be part of the squid family, a cuttlefish, from which he prepared a blue dye. And his Hasidim wore techelet. Until quite recently, if you saw someone wearing a blue thread in his tzitzit, you knew he was a Radziner Hasid.

This caused a great historical polemic one hundred years ago. Involved in the machloket in addition to the Radziner were Rav Yitzchak Elchanon Spector, Rabbi Yehoshua Trunk of Kutna, author of Yeshuat Malko, Rav Yosef Ber Soloveitchek, author of Beit Halevi, and others. This gave rise to a very rich halachic literature, especially by the Radziner himself, who wrote several seforim.

Rav Herzog, zatzal as a young man got his PhD, and his PhD thesis was on the subject of techelet. Rav Herzog had serious doubts whether the Radziner's techelet was really techelet and whether the cuttlefish was really the hilazon.

end of techelet's availability.

Ramban in his Commentary to the Torah, Shemot 22:2, asserts that techelet ended some time after the Geonic period, because the governments considered it a prerogative only of the nobility and would not permit Jews to wear a royal color. On the other hand, it is the opinion of the Radziner that Jews stopped using it because the many difficulties associated with importing and producing it, since in any case they felt they could observe the mitzvah of tzitzit with the use of white fringes alone.

<sup>&</sup>lt;sup>5</sup> Positive mitzvah 26.

<sup>&</sup>lt;sup>6</sup> Some rabbis opined that it was not absence of the hilazon which had led to the disuse of techelet, but rather the reality that knowledge of the dyeing process had been lost. They cite the Rambam, Pirush Hamishnayot, Menachot 4:1: "And we do not have it [techelet] today since we do not know how to dye it."

Two new things have happened in recent times. First, there has been a great deal of scientific elaboration exactly what is the hilazon, and what is the chemical structure of the dye techelet. Second, two young alumni of Yeshiva have identified those places where the hilazon exists in large numbers.

Among the scientists who have written on the subject are Edelstein, Ziderman, and Prof. Raold Hoffman, a nobelist in chemistry. They found that the dye which the Radziner prepared didn't come from the cuttlefish at all—it wasn't organic! What happened was that in order to prepare the dye, the Radziner Hasidim used not only the cuttlefish—squid, but also added other chemicals to make the dye fast. What happened was that these ingredients reacted with each other: The potassium and the iron reacted with the other components—and what they produced was Prussian Blue! This we know is a synthetic dye which was widely used for centuries. It is inorganic, synthetic. It has nothing to do with the snail, with the hilazon at all. Nevertheless, scientists who have written about it conclude that the Radziner made an error, albeit a brilliant error, and inadvertently produced a dye whose chemical structure is inorganic.

Now, for the biology of it: the snail that is now believed to be the real hilazon is a mollusc called Murex Trunculus, which appears in the Mediterranean, near the Israeli and Greek coasts. In ancient times, the Greeks and the Romans put a great deal of importance into colors. The two colors, techelet and argaman (blue and purple) were worn by the aristocracy; an unauthorized or unqualified person wearing these royal colors might be put to death! It was only for the great ones, not for common people.

They discovered that it was not the cuttlefish nor even the fish or snail identified by Rav Herzog (Janthina) which is the hilazon but another one. (pictures of various..) The world of snails is a very large one, it is not a simple matter.

Let me explain briefly about the colors, the dyes we are discussing: there are three--techelet, argamon, and then there is a third one, a fake kind of techelet called kelleh ilan. These three are similar to each other. Kelleh ilan is fascinating. Kelleh ilan is not organic, it does not come from an animal, but rather from a vegetable, a relative of the pea family, that in Talmudic times was imported from India. The color is very similar to techelet with some changes. If you look at the chemical diagram of the two, you will see that there are two Bromine atoms, in addition to carbon,

<sup>&</sup>lt;sup>7</sup> Let me add one thing: pure indigo, pure *kelleh ilan* does not look yet like *techelet*. There has to be added to it a certain amount of red dye, called kermes, which will give it enough tincture to make it the color of *techelet*.

nitrogen, and hydrogen. This is very similar to a dye called indigo (in one of the first post-talmudic books written, in Rome, the Aruch, explaining about techelet, when he mentions kelleh ilan, he writes it as indigo). Kelleh ilan is pure indigo, or its close cousin. If you add bromine to it, what you get is--argamon. So argamon and kelleh ilan are the same except for these two atoms. (Essentially, we are saying that the biblical color argamon which in ancient times was called Tyrian purple, chemically is dibromoindigo--indigo with the addition of a bit of red tincture.)

So, what is techelet? We know what kelleh ilan is, we know what argamon is, but what is techelet? If you make a mixture, half argamon and half indigo (kelleh ilan), what you get is techelet. (techelet, which comes from the hilazon, is half indigo and half dibromoindigo). Remarkably, it is only the male Trunculus snail which produces the particular mucus or glandular secretion from which techelet can be made, (half argamon and half argamonindigo). The female Trunculus secretes only dibromo-indigo, and that makes only argamon. What we have then is that if you take half of the male Trunculus secretion and half the female Trunculus secretion and put them both together—you have techelet!

## HALACHA

Now the question is, can we really identify colors? About a couple of hundred years ago, there was a sefer which came out, called B'somim Rosh. It was a cryptic sefer. Quite early on, there were many doubts about its authenticity. It purported to contain material from Rishonim, and indeed it does contain much material from Rishonim. However, the publisher also added considerable material of his own. And the problem is, how to determine what is his and what is authentic medieval material.

He writes that we can no longer have techelet today, because we cannot determine a color by words. By writing in a book, what techelet looks like, that cannot be sufficient to determine the true color. I can give you a general description, but I really cannot describe for you in words what the color red is. You have to see it to know it. In other words, the only way to determine which color is indeed the true techelet is based on mesorah, ish mipi ish. Otherwise, you can't know it.

Rav Menahem Mendel Kasher, z'tzl, in his Torah Shleimah, brings proof for this statement of B'Somim Rosh from a Yerushalmi which discusses various skin lesions (nega'im). Rav Yaakov Emden asks, why is it that today we don't keep the laws regarding tume'at tzara'at (ritual impurity arising from the presence in the skin of

<sup>&</sup>lt;sup>8</sup> The source has been attributed to the Rosh. However, inciting this book in his P'til Techelet, the Radziner notes that the Chatam Sofer referred to this book as "kizvei haRosh."

certain lesions. The lesions had to be viewed by a kohen and declared tameh by him)? After all, the Chazal and the Rambam ruled that the laws of marot hametzorah do apply ba'aretz and chutz la'aretz, whether in the Land of Israel or outside it, bifnei habayit veshelo bifnei habayit, whether there is a Beth Mikdash or whether there is none. Why then don't we follow this procedure? Because, the Yerushalmi says, it is written "lehorot". Lehorot means to teach. That means, from father to son, from kohen to kohen. It includes an actual clinical experience (with Marot). It is not enough to describe it in order to know it--you have to see it. The same would be true of techelet. You cannot just describe it, you have to see it.

That would seem to be the end of the discussion. Since we haven't had techelet for at least a thousand years and more, how can we know what color it should be? Yet, strange and exciting developments crop up, which may cast a whole new light on the subject.

About thirty-five years ago, the great archaeologist Prof. Yigal Yadin of the Hebrew University was digging and discovered caves that had been inhabited by Bar Kochba and his people during their rebellion in the second century. And he found a whole cache of wool which had been dyed and not yet woven into thread. He maintained that this wool--and its color was extremely fast, it would last forever--that it was the color of techelet. But he conjectured that really it wasn't the real techelet but was kelleh ilan. His thesis was that these people were holed up in a cave, it was an extremely dangerous time, a time of war, and they were a perfect "mark" for those who could take advantage of them, and sell them kelleh ilan while charging them for techelet. Thus, it is his theory that they were duped by the people who produced kelleh ilan.

Near the bag of wool they also found in the cave some tzitzit. They analyzed it, and they found that Yadin was right: indeed it was indigo, which comes from the pea plant, with the addition of a little bit of kermes, to make it the color of techelet. Since we have that, we know the color that techelet was. Even though it was not true techelet, yet we know that the color of kalleh ilan and techelet were indistinguishable. It should now be possible to make a dye from the mollusc identified as hilazon and compare it to the strands found in the Cave, in order to determine the authentic hue.

The rabbis read a tremendous significance into the addition of one strand of blue techelet into the fringes attached to the garment as tzitzit:

(hebrew)
Why was techelet singled out as different from all other colors [to be used in tzitzit? Because techelet resembles the sea, and the sea resembles the [color of

the] sky, and the sky resembles the [color of the] Heavenly Throne....Thus, techelet reminds the person of the Holy One Bless be He, who sits upon the Divine Throne.9

The Mishnah in Menachot<sup>10</sup> states: hatechelet eina me'akaevet et halavan, vehalaven eino me'akev et hatechelet. (entire mishnah in hebrew)

On tzitzit, it is necessary to have lavan and techelet, but one does not cancel (mevatel) the other. If you have only techelet without the white (lavan), you can use it, and if you have only the white without the techelet, you can use it as well. A similar rule applies to tefillin: tefila shel rosh eina me'akevet shel yad, ve-shel yad eina me'akevet shel rosh. Thus, if a person lost one or the other, he should still put on the one that he has-absence of one does not me'akev, nullify the other. This is the Mishnah.

The ruling in the Mishnah is not according to the opinion of Rebbe, who disagrees in this instance with the Sages (Chachamim). Rebbe says that absence of one or the other of the two elements does invalidate the tzitzit. Thus, since we have no techelet, there should be no wearing of tzitzit. Since the mitzvah has two parts, it's two or nothing. However, the Sages disagree and say that whatever you have, you put on.

Rambam, in his *Perush Hamishnayot* says (Hebrew), the mitzvah of *tzitzit* has two directives: the first is *lavan* and the second is to tie in with it a thread of *techelet*. But, adds Rambam, we

<sup>9</sup> Menachot 41.

<sup>&</sup>lt;sup>10</sup> 38a.

doubling them (to make eight), then knotting them. If there is no techelet, the rabbis disagree how many strands should be used. Rashi, the Sefer HaChinuch, and others maintain that four white strands should be used, but the Rosh and Tosafot (Menachot 38b, s.v. hatechelet) are of the opinion that only two white strands should be used. Orach Chaim 11,12 rules "bechol kanaf arba kefillin shehem shemoneh corner of the garment should have four strands doubled, to make eight.

<sup>12</sup> How many strands of blue should be used is also a disputed topic. Rashi and Tosafot (to Menachot 38a), the Teshuvot HaRosh 2:3, and others rule that there should be two blue and two white strands in the tzitzit. Ramban says there should be one blue and three white, and Rambam (Tzitzit 1:6) says that all should be white

cannot do the techelet part, because we don't know what it is. Moreover, although there are two commands, Rambam nevertheless rules that it we have here only one mitzvah, not two. Based on this, we may say that Rambam considers that according to Chachamim and certainly according to Rebbe, there is one mitzvah. Their disagreement is only whether they are me'akev (cancel) each other.

The source for the Rambam's ruling is to be found in Sifrei, which says

(Hebrew)

One might think that they are two separate mitzvot (lavan and techelet) but since the verse uses [the singular verb] "vehaya", it indicates that there is only one mitzvah involved.

Rambam follows this dictum in arriving at his ruling. Logic would therefore seem to dictate that he would also adopt the position of Rebbe, that absence of one of the two requisites of the mitzvah renders it impossible to observe that mitzvah. Nevertheless, Rambam sides with the *Chachamim* that absence of one does not prevent one from observing the mitzvah with only the other one.

In his Hasagot (disagreements) to the Sefer Hamitzvot, the Ramban challenges Rambam's conclusions. He maintains that one must look at the original Mishnaic text, wherein the discussion concerns two different mitzvot: tzitzit and tefillin. Each of these has two components—techelet and lavan for the former, and tefillin shell yad and shell rosh for the latter. Now, tefillin clearly are two mitzvot; therefore, reasons Ramban, Chachamim must also have considered tzitzit as two separate mitzvot (and that is why they discussed them together). What then do we do with the Sifrei, which says that tzitzit is only one mitzvah? That's simple, answers Ramban. Sifrei obviously concurs with Rebbe—that absence of one of the two components renders the mitzvah invalid—and logically that must be because they are one mitzvah. Ramban's argument remains as a challenge to the position of Rambam.

A putative response to Ramban can be found in the commentary of Rivash, who explains why the rabbis, albeit discussing the

except for one-half a strand of blue (making seven whites and one blue when folded). In Iggerot Moshe Orach Chaim 4:4, R. Moshe Feinstein writes that today, even without the techelet, the elevating benefits of tzitzit remain.

<sup>13 137.</sup> See also Responsa Ma'aseh Nissim:5; Sh'vut Yaakov 3:4. The difficulty in the Maimonidean text is that in Sefer Hamitzvot, Aseh 12 and 13, he writes that tefillin shel yad and shel rosh are

two mitzvot under one rubric, might nevertheless not have considered them to be the same: when one dons tefillin, there have to be two distinct actions: putting one on the head and one on the arm. However, putting on tzitzit is only one act, even if there are two components of the tzitzit. Thus, it would be very logical to consider the former as being two mitzvot, while the latter as only one. On the other hand, the Tashbetz<sup>14</sup> apparently finds Ramban's logic so compelling that he concludes that not only tzitzit but also tefillin must be only one mitzvah each!

What emerges from this is that there are two positions: Rambam, following Sifrei, as well as Tashbetz and many other Rishonim, are of the opinion that techelet and lavan in tzitzit comprise one mitzvah, and that both Chachamim and also Rebbe agree to this, although the Sages disagree with Rebbe whether absence of one of the components cancels the mitzvah. On the other hand, if we accept Ramban's challenge, we must conclude that when the Sages disputed Rebbe in the Mishnah, they maintained that in tzitzit there are two mitzvot, while Rebbe considered tzitzit as comprising only one.

Therefore, following this second position, if a person does not wear techelet when it is available—and techelet is a separate mitzvah—he is nullifying (mevatel) a specific positive mitzvah of the Torah, even though absence of techelet would not cancel out the need to wear lavan. And if we adopt the first position, of Rambam and those who rule as he does, that although there is only one mitzvah in tzitzit, absence of one of the two components does not render the mitzvah invalid—nevertheless, we would have to say that at the very least, a person wearing only the white fringes has not observed the mitzvah completely. (Because if techelet is available, fulfilled the mitzvah completely.) And if we follow the position of Rebbe, it is obvious that without techelet, the person has not fulfilled the mitzvah at all.

Now, there were some Rishonim and also some Acharonim who did say that so long as there is no techelet available (which has been the case for a good part of Jewish history), then wearing tzitzit with only white fringes does constitute total observance of the mitzvah. But this is only when techelet is not available!

two distinct mitzvot because they are not me'akev each other, yet when the same situation arises with the two parts of tzitzit, he remains with the opposite conclusion, that they form one mitzvah! R. Avraham the son of the Rambam asserts that we can see that tzitzit are only one mitzvah because only one beracha is recited, even if techelet is present.

<sup>14</sup> III:137, and also in his Zohar Harakiya.

Moreover, Ramban<sup>15</sup> quotes a responsum of Rashi that whoever wears lavan without techelet, has not fulfilled "a complete mitzvah" (mitzvah shleimah). And even if one maintains that at a time when there is no techelet, wearing tzitzit with only lavan is a mitzvah shleimah, yet that argument becomes untenable when techelet is available!

All that we have said so far follows the position of the Chachamim in the Mishnah, namely, that absence of one does not nullify observance of the other. Indeed, this is the halachic ruling of most early decisors, including Rif, Rambam, Tosafot, Ramban, and Rosh--who even goes so far as to maintain that this principle is halacha leMoshe MiSinai (a specific oral instruction to Moses at Sinai).

But the Baal Hamaor<sup>16</sup> adopts the position of Rebbe, that absence of one of the two components renders the mitzvah void. Thus, he says that there is no mitzvah from the Torah if one does not have both techelet and lavan. His reason for accepting Rebbe's dictum is straightforward: there is a rule of talmudic learning that when Rebbe disagrees with a colleague, we follow Rebbe. It is only when Rebbe disagrees with all his colleagues, that we follow them, not him (halacha keRebbe mechavero, velo mechaverov). And although the Mishnah has Rebbe disagreeing with "the Sages", yet in the Gemara explaining it, we find mention only of R. Yitzchak. In other words, this is a diagreement between Rebbe and one colleague, not the entire group. Thus, claims Baal Hamaor, we should definitely accept Rebbe's position as authoritative.

At the end, he comments that apparently R. Shimon Kiyara, author of BeHag, concurred with this view, since he omitted the Mishnah (that absence of one does not deter the efficacy of the other) from his compendium of laws. The Baal Hamaor concludes his remarks, "and it is the custom of our rabbis who came after the Rif to rely on him." It is difficult to know how to apply this cryptic passage, due to the ambiguity of the pronoun "him." To whom is the Baal Hamaor referring—to the Rif or to the Behag?

There are those who explain "him" as referring to Rif, who did not accept the position of Baal Hamaor, which would mean that most later decisors did not accept that position either. On the other hand, there are those who maintain that "him" refers to Baal Hamaor, which would make his position the normative halacha. Indeed, Ramban (who disagreed with the Baal Hamaor) writes that all his life the latter did not wear tzitzit at all, since he held not only that without both techelet and lavan, there is no mitzvah, but moreover that it is not permitted even to put white (linen) fringes

<sup>15</sup> Ramban, Milchemot, Shabbat 25.

<sup>&</sup>lt;sup>16</sup> Shabbat 25.

on a linen garment (sadin). (See our discussion of sadin later).

According to this, then, if techelet were to become available, we would have to use it; otherwise it would be willfull disregard of a positive biblical commandment. This becomes all the more compelling when we realize that if one doesn't use the techelet, there is no compliance with the need for lavan either, since according to this view both are necessary to effect the mitzvah. And even though it is not our custom to follow the Baal Hamaor, yet we cannot simply ignore him, nor Rabbenu Tam as well. (Parenthetically, I have found one latter-day posek (Mekor Chaim<sup>18</sup>) who does follow them in his ruling.)

I have heard in the name of the late R. Moshe Soloveitchek that even if we follow the approach of Rebbe--that without both techelet and lavan there is no mitzvah--nevertheless, there are two fundamental issues involved: one is the observance of the mitzvah of tzitzit while the second is the prohibition of wearing a four-cornered garment which does not have tzitzit. Rebbe's insistence that without both elements there is no mitzvah applies only to the first principle, but he would agree that even the presence of one of the two parts of tzitzit would suffice to remove the garment from the category of a non-fringed garment which may not be worn.

It seems to me, however, that this is a difficult argument to sustain, for we have seen that the Baal Hamaor, according to the testimony of Ramban, asserted that he had never worn tzitzit in his life. Yet, if R. Moshe Soloveitchek is correct in his analysis, the Baal Hamaor should have attached at least white fringes to his garments, to remove them from the prohibited category of "a four-cornered garment lacking tzitzit". Rather, we are constrained to say that attaching white fringes has no effect upon the status of the garment. Thus, one would either have to do without tzitzit due to the reality that it is impossible for him to observe the mitzvah-or else never wear a four-cornered garment. Consequently, it would seem imperative to use techelet when it is available, thereby seizing the opportunity both to observe the mitzvah as well as to avoid the issur of wearing a garment lacking tzitzit.

Let us turn now to the ruling which has been accepted as normative, viz., that absence of one of the two components of the

<sup>17</sup> See Menachot 41, where an angel indicates that those who disregard a positive biblical command are punished with "idan ritchah". However, see the comments of Tosafot to Erechin 2b.

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<sup>19</sup> See Tosafot Yevamot 4b, s.v. "kulho"; Rambam, Hilchot Tzitzit 3:10.

mitzvah of tzitzit does not nullify the mitzvah. The Pri Megadim<sup>20</sup> wonders, if one wears a cloak and it has fringes of white, isn't he intentionally thereby cancelling the mitzvah of techelet (docheh biyadayim)? Doesn't this act constitute a deliberate nullification of a positive Torah command? Perhaps, he suggests, it might be preferable not to put on arba kanfot altogether, because even in his very act of fulfilling the mitzvah of lavan, he is intentionally nullifying the positive mitzvah of techelet.

However, the Sha'agat Aryah, 21 who was almost a contemporary, examines the question in a somewhat different manner. He says, if you put on a tallit of arba kanfot, and it has no tzitzit—have you performed a prohibited action, or is it simply that you have failed to perform a positive mitzvah? What's the difference? If you say that it is forbidden to wear a garment that lacks tzitzit, then this garment can't be worn at all. If the only proper tzitzit include both techelet and white fringes, and we don't have techelet, then nowadays one is not allowed to wear a four-cornered garment.

However, if we do not look upon it as forbidden to don a garment without tzitzit, then we can say that by putting on such a garment, the person has simply failed to perform a mitzvah, which in any case he is not able to perform due to absence of techelet in our era. As the Sha'agat Aryeh puts it (hebrew), "we have no complaints" about his action, because the person can't help himself, he has no access to techelet. Thus, if the fashion were to wear a loose garment of four corners, we would be permitted to wear it, according to Sha'agat Aryeh, as long as we have no ability to change it, to put on the proper fringes, "we would have no complaint about his action."

According to this, it is possible that Pri Megadim would also hold that if there is no techelet available, a person would not be considered as intentionally nullifying a mitzvah and it may even be desirable to put on only lavan, so that at least the mitzvah of tzitzit will not be forgotten. However, if techelet is available and the person doesn't use it, the Pri Megadim certainly would consider that he has actively cancelled a mitzvah.

But what about the Sha'agat Aryeh, who comes down on the side that if there is no choice, because there is no techelet, there is no issur in putting on the garment? What happens if you have techelet available? Then, it would not be possible to say that "we have no complaint" if he fails to use it; rather, he would have to wear the techelet, or else he would be considered as actively

<sup>20</sup> Orach Chaim, Introduction to Laws of Tzitzit.

<sup>&</sup>lt;sup>21</sup> Siman 32. See also Ma'amar P'til Techelet, chapter 3, for an extensive discussion of these points.

nullifying a biblical command (Docheh mitzvat aseh biyadayim).
SADIN

Our Rabbis taught: a sadin with tzitzit, the Academy of Shammai exempted it, the Academy of Hillel considered it mandatory. 22

There is a debate between the two great academies of Hillel and Shammai, whether it is permissible to attach a fringe of techelet, which is made of wool, to a sadin, a garment made of linen (which would make it shatnez, a forbidden mixture.

There is considerable controversy among the Rishonim in explication of this halachic topic.

(A) According to Rashi, the Rosh, and others, the Academy of Shammai did not permit one to have the forbidden mixture of shatnez in tzitzit, because of their principles of interpreting the Torah. They never extrapolated nuances in the law based on juxtaposition of verses (s'muchin). Thus, the Torah puts two laws together—(a) put fringes on your garments and (b) do not wear a garment made from a mix of wool and linen. The fact that these two laws follow one the other is meaningless for the Academy of Shammai. Therefore, they would not allow fringes of techelet (wool) to be attached to a sadin, a linen garment.

On the other hand, the Academy of Hillel did read relevance into the juxtaposition of commandments. Consequently, the fact that the law of tzitzit is right next to the prohibition of shatnez was interpreted by them as a directive that tzitzit are required to be of shatnez. Hence, they taught that the Torah required techelet (wool) on a sadin. However, they conceded that the Rabbis, for their own reasons, had made a gezera, an amendment not to use techelet in a linen garment.

(B) Rabbenu Tam, as well as others, had a different explanation of the dispute between the Academies: These rabbis consider that all agree that the Torah requires putting techelet in a linen garment. However, the Hillel Academy abrogated this requirement only because of a rabbinic enactment (gezera). (But insofar as a woolen garment is concerned, he must attach to it not only techelet of wool but also white linen fringes.) The halacha is according to the Academy of Hillel.

As far as normative law is concerned, there is debate whether one may or must attach even white linen fringes to a linen garment.

<sup>&</sup>lt;sup>22</sup> Menachot 40a. The Minchat Chinuch 383 has a very interesting approach to our text.

Rif, Rambam, Rashi, and Ramban (in Milchamot) rule that a linen garments must have tzitzit of linen, and the rabbis only made a decree about attaching techelet to such a garment. However, Baal Hamaor and Rabbenu Tam²4 rule that it is forbidden to attach even white linen fringes to a linen garment, and they maintain that this is really what the respective Academies were arguing about in the Mishnah. I.e, they were arguing whether one may attach even linen fringes to a sadin, the reason being that if we permit white linen fringes in a linen sadin, a person might err and also put on techelet, which is always wool. Thus, this is forbidden due to the disagreement of the Academies of Hillel and Shammai. 25

Rabbenu Tam even writes that a person who puts on a tallit of linen is making a beracha levatala, while Rosh observes that in France and Germany, where he had lived in his youth, it was the custom not to make a tallit out of linen. However, when he came to live in Spain, "I saw that everyone wears a linen tallit. " And although he continued to prefer not making a linen tallit, he ruled that one should not bother those who do. For this, he gave two reasons: (a) tallitot made of wool were not available, and if one were to forbid use of a linen sadin, he was afraid that they would not keep the mitzvah of tzitzit at all; and (b) in this custom, they are following the teaching of the Rif, who was a major authority for Spanish Jews. Furthermore, the Rosh adds, even if we follow Rabbenu Tam, it wouldn't make sense to restrict a linen garment with linen tzitzit just because we are afraid people might mistakenly attach techelet fringes as well--since nowadays there is

Consequently, if today we have recovered the true techelet, according to Rabbenu Tam and the Baal HaMaor, it should once again

<sup>&</sup>lt;sup>23</sup> Because of problems which might arise if the garment were to tear, or if it were a nightgown or similar garment worn at night, or possibly because of *kalleh ilan*.

<sup>&</sup>lt;sup>24</sup> Tosafot, d.h. sadin, Menachot 40a, Shabbat 25b.

One of the strong arguments made against this position is voiced by Ramban, who complains that this ruling imposes a rabbinic restriction upon another rabbinic restriction, a procedure which rabbinic law does not permit.

A basic rationale for the Baal Hamaor is that once techelet is forbidden in a sadin, there cannot be justification for permitting lavan, since together they are one mitzvah. It would make no sense to forbid techelet while permitting lavan. Therefore, it is his contention that any type of tzitzit at all is forbidden in a linen garment.

<sup>&</sup>lt;sup>26</sup> See Aruch Hashulchan, Orach Chaim 9:20.

be prohibited to attach linen fringes to a linen garment.27

Let me summarize:

\* The identification of the color of techelet is no problem. We know the chemical composition, we know the color. We have it, it is available, min hashamayim. Although it is true as the B'somim Rosh says, that you cannot describe a color in words, nevertheless, with the discoveries in the Bar Kochba Caves, we have overcome that difficulty.

The Gemara has said that kelleh ilan is so similar to the color of techelet that only the Kadosh Baruch Hu can distinguish one from the other. (Only the One who in Egypt was able to differentiate between the drop which created a bechor and the drop which didn't, only He can tell the difference between kalleh ilan and techelet). Other than that, one cannot tell the difference. So that if we take indigo and add to it the kermes, the red tincture, that would give us the exact color of techelet. Even though the wool found in the caves is kalleh ilan and not techelet, yet we know the colors are identical. Therefore, today this would not present an insurmountable problem.

- \* According to Rebbe, and the Chachamim in the Mishnah according to Ramban, techelet and lavan are two mitzvot; the one who does not wear techelet when it is available, is mevatel mitzvat aseh biyadayim. The only dispute is whether me'akvin zeh et zeh, whether absence of one renders the other component meaningless, and therefore obviates the mitzvah.
- \* According to the position that techelet and lavan are one mitzvah, which is the view of the Rambam, if techelet is available and one doesn't use it, at the very least, he has failed to fulfill the mitzvah completely. Even though there are acharonim who wrote that if techelet is not available, the mitzvah is totally performed even with the donning of lavan alone, yet to this there are two objections: First of all, Rashi in a responsum<sup>28</sup> has said that it is not so-- when techelet is not available, one who puts on tzitzit with only the lavan has not performed the mitzvah in its totality. Furthermore, even were we to concede that when techelet is not available the mitzvah has been wholly observed even with only one

<sup>&</sup>lt;sup>27</sup> As for other garments, it depends on an ongoing argument from the Tannaitic period through all the decisors, whether the Torah requires all garments to have tzitzit or only wool or linen ones. Rif and Rambam wrote that they are required only because of rabbinic fiat, but Rashi, Tosafot, the Rosh, and the Smag considered that the Torah requires tzitzit for all, and that is the normative rule recorded by Ramo.

<sup>28</sup> Cited by Ramban in Milchamot, Shabbat 25.

type of fringe, yet certainly when techelet is available, it is not possible to take this position.

- \* According to the Pri Megadim, it would seem that if there is techelet and you don't wear it, you have actively and intentionally nullified a biblical command. In this case, it might be better not to wear a four-cornered garment at all, rather than to intentionally ignore a biblical directive.
- \* According to the Sha'agat Aryeh, we might say there is no issur of wearing a tallit without techelet when it is not available, but when it is available, one may be required to use it or be considered as actively nullifying a positive commandment.

Now all this holds if you agree that today, there has been a correct identification of the hilazon and the method of dyeing. Indeed, it would seem to me, based on all that we have said here, that indeed we have achieved this. Even if people are in doubt as to our ability to renew this practice at this point, yet I don't think it is possible to ignore the issue entirely. On the contrary, I think one has to consider it a serious possibility.

Let us say that after serious study, a person would come to the conclusion that there is a safek here, a doubt. What does one do now? There are those who say we should not use techelet, based on an incident recorded in the Sifrei, 29 that there is a certain element of danger for those who gather techelet. Also, they quote the Ari Hakadosh that techelet will not be renewed until the time the Third Beth Mikdash will be built. Regardless, it is clearly not enough to cause a positive directive of the Torah to be cancelled.

They also quote a Tosefta<sup>30</sup> (hebrew) "techelet is only kosher from the hilazon, and if it is not from the hilazon it is invalid." But I think what the Tosefta means is that if you have techelet but not from the hilazon that it is pasul only insofar as the techelet is concerned. If the hilazon we have today is not the right hilazon, it does not follow that one shouldn't wear it, but only that you don't get the mitzvah of techelet, although at the least you get the mitzvah of lavan. It can't be worse than any other color that is put into the tzitzit. Let's say someone has red tzitzit. With them, he does fulfill the mitzvah of lavan. Lavan doesn't mean they have to be white, it means any color not techelet.

Some further notations: there are a number of opinions about the color: (a) whatever is not from the hilazon is called kalleh

<sup>29</sup> Vezot Haberacha 354.

<sup>30</sup> Menachot, chapter 9:6.

ilan. However (b) there is an opinion that whatever is not kalleh ilan is acceptable as techelet. And as long as it comes from a hilazon, even if it is not the hilazon of the Torah, yet it is kosher for use as techelet, since it does derive from hilazon.

Even if you say that it is a genuine safek, and maybe this is not the real techelet, nevertheless there is no p'sul in using this particular dye which is colored the same way as techelet, because the Rambam says<sup>31</sup> that if it was dyed using one of the other dyes which darken [the color] and are not permanent, not color-fast, it is not acceptable. But that's only when you don't have techelet. But when techelet is available, or the color is available, there is no p'sul involved. Indeed, R. Chaim David HaLevi<sup>32</sup> and others have ruled that if you have a dye the color of techelet even if it is not authentic techelet, you have fulfilled the mitzvah of lavan.

Let me close with just a few words of Aggada: According to the kabbala of the Ari, there is a song, a song which is the source of all the hymns and songs we offer to G-d. And one of the songs which derives from this great niggun, which is the matrix of all songs, is the melody of the geulah, the redemption which is to come to the Jewish people. And this niggun will be played on a harp, a kinor. A harp has strings, and in the future time of redemption, the strings of the tzitzit will form the strings of the harp on which the music of the geulah will be played.

We can only hope that with the probable rediscovery of techelet and renewal of that mitzvah, who knows, maybe this is the time that the strings of the harp are ready for the Spirit to blow on them and play the song of the Geulah.

Indeed, R. Yehoshua Kutna<sup>33</sup> writes that although he hesitates to affirm the proposal of the Radziner to renew techelet, yet, he concludes, "we don't know for sure either that this is not the hilazon, and perhaps these are the first rays of the geulah itself..." Thus, he saw in the renewal of techelet a sign of the Redemption. May it be His Will.

<sup>31</sup> Chapter 2:4, Hilchot Tzitzit.

<sup>32</sup> Chief Rabbi of Tel Aviv, in Aseh Lecha Rav VIII:1.

<sup>33</sup> In his Yeshuot Malko.