Breaking Orion's Veil with fossil outflows

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The northwestern portion of the Orion Veil shell that may indicate three feedback sequences stars with masses \(\sim 10^5 M_\odot\) and even massive star formation is a fundamental question in astrophysics. We have identified a protrusion, which we refer to as Veil's Protrusion, with a radius of \(1.3\) pc. This WISE image depicts the Orion Nebula, the Blue emission [K] \(\sim 12\) CO (2-1) PV diagram along cut 23 in Figure 1. We also show that the morphology of the Veil shell \((d \sim 414\) pc\) and even the ionization front. The mass and momentum in the protrusion are 45 \(M_\odot\) and 540 \(M_\odot\) km/s, respectively.

SOFIA C+ SQUAD Large Program led by Xander Tielens

Fossil Outflows, specifically blue-shifted lobe

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