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## ABSTRACT:

GEMINI GMOS optical images and CFHT WIRCam infrared (IR) data of NGC 3587 (The Owl nebula) have developed the precise location of elusive and discrete molecular material reservoirs into this object. The material is also observed on Spitzer IRAC mid-IR images, confirming their molecular nature. In this work, we present high-resolution imagery and the IR analysis of the newly found features in the H2 emission line. Our results indicate that the present nebular structures are reminiscent of condensations that have been shielded by dust and could be sculpted by means of instabilities in the main nebula.