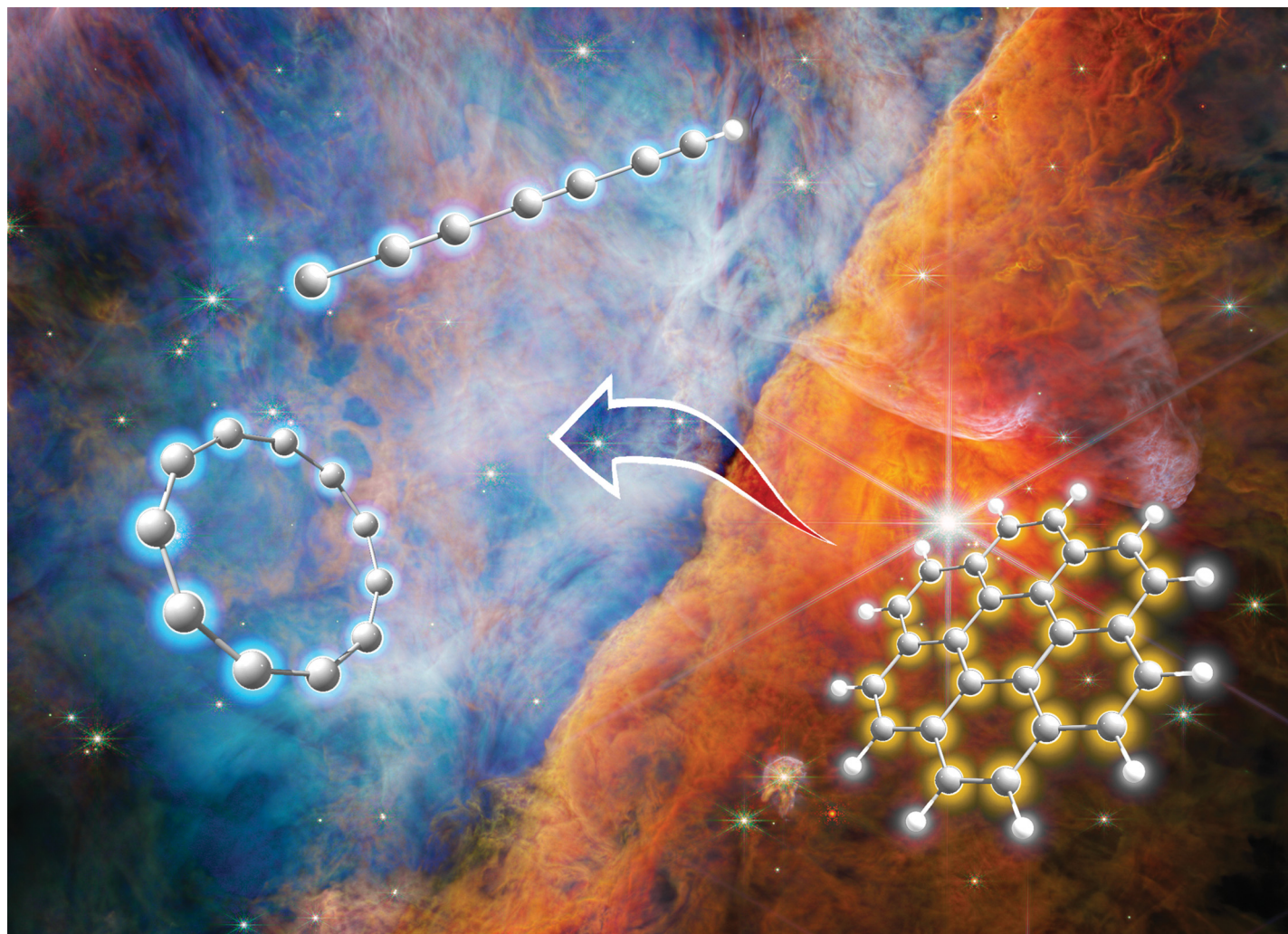




Showcasing research from the groups of Prof. Harold Linnartz
and Prof. Xander Tielens (Leiden University, Netherlands)

Laser-induced fragmentation of coronene cations

This study presents the time-of-flight mass spectra of the coronene cation and its laser-induced photofragments. Detailed analysis with density functional theory identified potential dissociation pathways to key photofragments, including carbon clusters such as C_{11}^+ and hydrocarbon chains such as C_7H^+ . These findings can be extended to explore the formation routes of other astrochemically relevant species.

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As featured in:



See Jordy Bouwman *et al.*,
Phys. Chem. Chem. Phys.,
2024, **26**, 18557.