

Laboratory studies on dust condensation and processing in astrophysical environments

Cornelia Jäger (Max Planck Institute for Astronomy), Tolou Sabri (Max Planck Institute for Astronomy) and Thomas Henning (Max Planck Institute for Astronomy), Elke Wendler (Friedrich Schiller University Jena)

The condensation as well as the processing of main dust components in astrophysical environments is not yet completely understood. Dedicated laboratory experiments are necessary to obtain more insight into the destruction, formation, and chemical-structural modification of solid grains in different astrophysical environments. Recent results of experimental work on condensation and on ion-induced processing of siliceous and carbonaceous dust grains will be presented.