Final Report: Presolar Grains as Tracers of Nebular Processes.
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NAG5-8173

This grant provided two years of funding to investigate the abundances of presolar diamond, SiC, and graphite in primitive chondritic meteorites. The original proposal was for a three-year study, but two years of funding were awarded. The proposed work plan for the first year included preparation of acid residues for two meteorites and noble-gas measurements on those residues and residues of two other meteorites that had been previously prepared. The meteorites to be measured were Acfer 003, Adrar 214, RC075, and Axtell. In the second year, the plan called for measuring Renazzo and Murchison, and beginning chemical processing on another set of meteorites, including Murray, which were to be measured in the third year. All of the meteorites listed above have been measured and the results were presented in three abstracts (Huss et al., 1998; Huss et al., 2000; Huss et al., 2001). The project is continuing under follow-on grants and one of two planned major papers is almost ready for submission (Huss et al., 2002).

Abstracts resulting from research supported by this grant:


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