

【Mathematics/Physics】

Title of Project	Anatomy of protosolar system
Principal Investigator Name	Hisayoshi Yurimoto, Hokkaido University, Department of Natural History Sciences, Professor
Abstract of Research Project	Recently we developed a state-of-the-art instrument of isotope microscopy and applied to meteorite analyses. We discovered that circumstellar materials formed before solar system formation are embedded in meteorites. This discovery demonstrates that evolution from the circumstellar materials to solar system materials can be directly traced by isotope microscopy. In this project, we continue to develop the anatomy of meteorite by isotope microscopy more precisely. The new generation isotope microscopy will clarify material evolution during and before our solar system formation. Based on the results, we propose new scenario of origin of solar system including our specificity and universality. This is a challenge to universal theory of origin of planetary system in galaxy based on material evidence.
Number of Researchers : 3	
Term of Project: 2008–2012	