

Global recycling model of material evolution in the proto-solar nebula

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Materials in chondrites such as chondrules, CAIs and matrix minerals have been generated in the stage of T-tauri star of the sun. These materials have been globally circulated around the solar nebulae by bipolar out-flow of the proto-sun. This circulation mechanism determined compositions of each planet. In this talk, we will introduce the evidence of stable isotopes and short lived nuclei in the meteorite component, and discuss the relationship to the proto-star phenomena.