

Evolution of the early Solar nebula: Isotopic Fractionation and Dynamical Processes.

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In my presentation I will summarize major results of our coherent approach to reconstruct and understand chemical evolution of the Solar nebula in the presence of turbulent mixing and deuterium fractionation, with a particular emphasis on the origin and evolution of organics and water in the early Solar system.

+ [1] Semenov, D., Wiebe, D. (2011) ApJS 196, 25. [2] Albertsson, T., Semenov, D., Henning, Th. (2013) ApJS 207, 27 +

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