

Grain coagulation during the protostellar collapse

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Grains play a major role during star formation, through their interactions with the gas, thermal radiation and magnetic fields. Because their properties change as they grow in size, it is of prime importance to determine how their size-distribution is affected by the coagulation that occurs in the early phase of star formation. I will present a method to compute the coagulation of grains, that is inexpensive and self-consistent, and its results in protostellar collapse simulations.