



Contribution ID: **18**

Type: **Contributed talks**

Deal.II in cosmic ray propagation

Monday, July 23, 2018 11:40 AM (20 minutes)

Cosmic ray propagation in fluid approach can be described as a PDE system, which lives in 6D spatial-spectral space.

In our project, we attempt to build up a solver for such a system,

by combining independent triangulation in two domains (spatial and spectral).

In this talk, I will present why and how we build this framework with Kronecker product.

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Session Classification: Contributed talks

Track Classification: Users' track