



Contribution ID: 157

Type: **Talk (preferred)**

Space-Time Inside a Star

Monday 12 December 2022 15:00 (15 minutes)

Exact solutions to Einstein's field equations are notoriously difficult. In this work we obtain expressions for the metric tensor for the interior of a star, i.e., for static spherically symmetric space-times with positive and monotonically decreasing density and pressure.

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Session Classification: AIP: Relativity and Gravitation

Track Classification: AIP Congress: AIP: Relativity and Gravitation