



Contribution ID: 52

Type: **Talk/Seminar**

Conserved quantities related to $(3+1)$ decomposition of CYK tensors

Monday 23 September 2019 17:10 (20 minutes)

Conformal Yano-Killing (CYK) tensor is a generalization of Killing vector to anti-symmetric two-form which describes so called hidden symmetries. $(3+1)$ decomposition of CYK tensor enables one to construct charges from initial data in a new, simple and geometric way. I will present the construction and compare it with traditional ADM approach. Joint work with Jacek Jezierski.

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Session Classification: Parallel Sessions

Track Classification: Parallel Sessions