

XXXIV International (ONLINE) Workshop on High Energy Physics "From Quarks to Galaxies: Elucidating Dark Sides"

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Screw calculus: from machinery to twistors

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Wrenches and twists are considered as generalizations of the concepts of force and angular velocity, respectively, and the corresponding mathematical formalism is reviewed. Manifolds of forces or angular velocities that naturally emerge in the screw theory are compared with the Grassmann manifold associated with the Penrose twistor space.

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Track Classification : History, philosophy, methodology of QFT, QCD, gravitation and cosmology