

Miniworkshop
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Exterior differential systems
and
the Lagrange-Poincaré equations

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We discuss a new approach to the Lagrange-Poincaré field equations based on the notion of an exterior differential system with symmetry. More precisely, we will obtain an explicit realization of the reduced contact ideal and show, in particular, that it contains a curvature term that is responsible for the so-called horizontality or reconstruction condition. This is joint work with Santiago Capriotti and Marco Castrillón.