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Hamiltonian formulation of higher order Chern-Simons field theory. DIANA CASTRO, ALBERTO ESCALANTE, Benemerita Universidad Autonoma de Puebla — We use a model that involves the higher (third) derivative of the Chern-Simons (CS) abelian topological term in D = 2 + 1 dimensions. Then we discuss the Hamiltonian structure of such higher derivative models following the Ostrogradsky formalism for higher order Lagrangian for the Maxwell-Chern-Simons field theory we also illustrated the problem in quantising these higer derivated models.

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