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**Manuel de Leon\*** ([mdeleon@icmat.es](mailto:mdeleon@icmat.es)), ICMAT, c/ Nicolás Cabrera 13-15, 28003 Madrid, Spain. *Geometry and dynamics*.

In this talk, we will discuss how different background geometries produce completely different dynamics. More precisely, we show how symplectic and cosymplectic geometries produce the Hamilton equations for a given Hamiltonian function, but dissipative Hamiltonian equations needs to use contact geometry. (Received August 21, 2018)