

1116-53-2237 **Nicola Gigli*** (ngigli@sissa.it), via Bonomea 265, 34135 Trieste, Italy. *Nonsmooth differential geometry.*

In this talk I will discuss in which sense general metric measure spaces possess a first order differential structure and how on spaces with Ricci curvature bounded from below a second order one emerges. In this latter framework, the notions of Hessian, covariant/exterior derivative and Ricci curvature are all well defined. (Received September 22, 2015)