**GIOVANNI LANDI**, University of Trieste, via A. Valerio 12/1, I-34127 Trieste Dirac operators on noncommutative manifolds

I will motivate the use of noncommutative geometry for singular spaces and give an introduction to the use of Dirac operators (and of spectral triples) for metric structures on noncommutative manifolds. The general theory will be clarified by some crucial examples coming from toric and quantum group (co)-actions.