



Dipartimento di Fisica  
Università di Cagliari  
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# HIGH ENERGY PHYSICS COLLOQUIA

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## BITS AND PIECES IN QUANTUM GRAVITY

### Abstract

After presenting shortly the major approaches to quantum gravity, I will discuss an aspect of quantum gravity, on which most of them agree on, namely, the presence of the (minimal) length scale and the associated issue of locality. Then I will elaborate, discussing emergence of this scale in some models, paying special attention to the fate of Lorentz symmetry. Finally I will briefly describe a model with curved momentum space.

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