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## **Universality (and its limitations) in cosmic ray shower development**

*lunedì 14 settembre 2015 16:30 (25 minuti)*

In this talk we review the concept of “universality” in the development of very high energy cosmic rays showers. The main result is that the distributions of photons and electrons in a shower have shapes that are essentially determined by the stage of shower development (the shower age) independently from the energy and identity of the primary particle. The implications of this result for the interpretation of the observations will be discussed.

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**Classifica Sessioni:** Interplay between LHC and UHECR physics

**Classificazione della track:** Interplay between LHC and UHECR physics