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Transition radiation in cross-media showers

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When a particle shower crosses the boundary between two dielectric media, transition radiation is produced. This effect can produce a sizable signal over a wide solid angle, but still remains hard to take into account in current Monte Carlos. The new geometry structure and process sequence in Corsika 8 will allow a natural implementation of transition radiation.

In this talk I will give an introduction on transition radiation and its implementation in Corsika 8.

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