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EmCa - Electromagnetic Cascades Simulation Package

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Emca is a new python simulation package, based on MCEq, for the calculation of electromagnetic particle fluxes in various materials. The calculations are based on a cascade equation approach, allowing for an iterative calculation of showers. This allows for fast and efficient calculations of cascades, allowing easier testing and prototyping compared to a Monte Carlo approach. The methodology of EmCa and comparisons between it and CONEX will be shown.

Summary

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