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Implementing QED radiation in Vincia

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Most parton showers currently work in the leading colour limit, allowing for coherent gluonic radiation through either angular ordering or the dipole/antenna formalism. For photon emission, the equivalent type of radiation in QED, there is no leading colour limit and the soft structure is more complicated. In this talk, I will discuss how we are including photonic emissions into the Vincia parton shower. I will briefly explain several available algorithms which have varying accuracy and speed.

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