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The Crab Nabula: observations and simulations

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The Crab Nebula, one of the most studied objects in high energy astrophysics, was discovered to produce strong and short gamma-ray flares by the AGILE satellite. More recently a slower and less intense component of enhanced emission was detected in gamma rays. This transient gamma-ray emission leads to substantially revise current models of particle acceleration in Pulsar Wind Nebulae. The South-East jet of the Crab Nebula is thought to be one of the region where the particle acceleration might take place. I will discuss the implications of the gamma-ray enhanced emission and our results on the 3D relativistic MHD simulations of the South-East jet.

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