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Genetic algorithms

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Optimization problems are very common in high energy particle (astro-) physics. In this tutorial we want to BROADen the typical optimization toolkit known to physicists by introducing so-called genetic algorithms (GA). These algorithms are very powerful when it comes to optimizing abstract or high dimensional problems.

In this course we want to discuss the main concepts and give an overview of the most common problems GAs are applied to. A large part of the course will be dedicated to experimenting with existing implementations so that the participants can form their own opinion.

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