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The QCD axion, precisely

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The QCD axion solves the strong CP problem and it is a natural dark matter candidate. Although its mass and couplings are determined by non-perturbative QCD effects I will show that they can be extracted with percent accuracy, partially exploiting the foreseen experimental accuracy in case of discovery. Furthermore I will discuss the unreliability of the usual instanton estimates and study the impact on dark matter and cosmology.

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