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Resonances from lattice QCD using distillation

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To study QCD resonances within lattice QCD one needs as a first step correlation functions computed from a large basis of single- and multi-hadron interpolators. A particularly efficient method to compute these correlation functions is distillation. In this talk, I am presenting the state of the art of the distillation technique and will also cover recent new developments. As an outlook for the near future, I will discuss how one would use the technique to study semileptonic rare decays into resonant channels.

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