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Probing light dark particles with η and η' decays

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Hadronic and radiative decays of light meson decays offer a privileged environment to test QCD and search for physics beyond the Standard Model. A new generation of precision experiments in hadron physics will soon offer new data that will provide sensitive probes to test potential New Physics including searches for dark photons, light scalars and axion-like particles, complementing worldwide efforts to detect new light particles in the MeV-GeV mass range.
In this talk, I will give an update on the theoretical developments and discuss the experimental opportunities in this field, paying particular attention to the sensitivity of the η and η' mesons to dark bosons and ALPs.

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