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The REDTOP experiment is being designed to produce  $10^{13}$   $\eta$  mesons and  $10^{11}$   $\eta'$  mesons. Two different production mechanisms are available, depending on the energy and intensity of the beam. The physics sectors which can be probed at REDTOP range from the violation of discrete symmetries to the search for new particles. Non-eta meson sectors can also be explored, such as ALPS and QCD-axions. Finally, the Standard Model can be probed at low energy at an unprecedented level. Novel detector techniques need to be developed to cope with the high interaction rate. Future High Energy and High Intensity experiments will benefit from that R&D. A collaboration has been forming since several years with the intent of submitting a proposal to the US HEP Community.

[2] <https://indico.fnal.gov/event/44819/contributions/193751/attachments/132857/163535/RF6-Kickoff-DM-Production.pdf>

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