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Energy frontier lepton-hadron colliders, vector-like quarks/leptons, preons and so on

First of all, an importance of the LHC/FCC based energy frontier lepton-hadron and photon-hadron colliders is emphasised. Then arguments favoring existence of new heavy isosinglet down-type quarks and vector-like isosinglet or isodoublet leptons are presented, following by historical arguments favoring new (preonic) level of matter. The importance of Super-Charm factory and GeV energy proton linac for Turkey's national road map is argued. Finally, several recommendations for ESPP2020 are suggested.

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Track Classification: Beyond the Standard Model at colliders (present and future)