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Tile Multiple readout and beyond

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Dual Readout Calorimetry measures scintillation light and Cherenkov light on the same hadron shower to correct the jet energy in order to compensate hadron and jet energy measurements.

Dual Readout with parallel plastic scintillator and quartz fibers shows promise, but limitations exist including but not limited to radiation damage of the plastic scintillators and high costs.

We present dual readout calorimetry with scintillator and Cherenkov tile readout and beyond to multiple tile readout, with superior energy resolution, and radiation resistant ionization sensors in the form of tiles (inorganic scintillators, Si, LArgon).

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