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AugerPrime and Radio Trigger

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The AugerPrime upgrade at the Pierre Auger Observatory marks a pivotal development in ultra-high-energy cosmic ray (UHECR) research. This enhancement equips the observatory with advanced detection capabilities, aimed at providing deeper insights into the properties and origins of cosmic rays with energies above 1 EeV. The presentation will cover the potential implementation of a self-Radio Trigger system, which is proposed but not yet realized. The importance of such a system lies in its ability to autonomously detect radio signals from cosmic ray air showers, significantly boosting detection efficiency, especially for neutral high-energy cosmic rays.

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