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## The AugerPrime upgrade of the Pierre Auger Observatory

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The Pierre Auger Observatory studies cosmic rays with energies exceeding  $10^{17}$  eV. The construction of the observatory in Malargüe, Mendoza, Argentina, was completed in 2008 and several important results have been published. In particular, Auger has confirmed the cosmic-ray flux suppression at the highest energies. Presently it is not possible to determine whether the suppression is due to energy losses in transit or if it reveals the maximum energy of the source accelerators. To provide an answer to this question, an upgrade of the observatory, called AugerPrime, is proposed. The key lies in better identification of the primary composition, especially extending to the highest energies. The science case and technical solutions for AugerPrime will be discussed and the upgrade construction plan will be presented.

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