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Recent Results of Baryon Electromagnetic Form Factors at BESIII

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The electromagnetic probe offers a distinctive approach to exploring baryon structure. Within the baryon octet, only protons and neutrons can be directly studied through scattering experiments, while the remaining baryons require investigation via positron-electron annihilation experiments, which are constrained by their lifetimes. Utilizing collision data with an integrated luminosity of approximately 688.5 pb^-1 in the center-of-mass energy range of 2.0000 to 3.0800 GeV, collected by the third-generation Beijing Spectrometer (BESIII), the BESIII Collaboration has precisely measured the electromagnetic form factors of various baryons, for instance, the time-like electromagnetic form factor of neutrons. This report reviews recent experimental progress in this field.

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