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Pion exchange for $P_c(4450)^+$ and related states

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Pion-exchange offers a natural explanation for $P_c(4450)^+$ as a meson-baryon molecule, and implies a number of partner states. I discuss the properties of these partners and suggest experimental channels for their discovery. The molecular interpretation also implies that $P_c(4450)^+$ is a mixture of isospins $1/2$ and $3/2$, which has characteristic signatures in production and decay. Several intriguing similarities suggest that $P_c(4450)^+$ is an analogue of the $X(3872)$ meson.

Summary

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