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Searches for exotic hadronic states at D0

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The D0 collaboration has recently reported evidence for a possible four-quark state named $X(5568)$ in the decay sequence $X(5568) \rightarrow B_s^0 \pi^\pm$, $B_s^0 \rightarrow J/\psi \phi$. Here we present a progress report on our search for the $X(5568)$ with semileptonic decays of the B_s^0 meson. We also report on a search for a strange pentaquark decaying to a $J/\psi \Lambda$ pair. The studies are based on 10.4 fb^{-1} of $p\bar{p}$ collision data at $\sqrt{s} = 1.96 \text{ TeV}$ collected by the D0 experiment at the Fermilab Tevatron collider.

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