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Search for New Hadronic States W_{bj} in Belle data NICHOLAS CORRADO, VLADIMIR SAVINOV, Univ of Pittsburgh, BELLE COLLABORATION — Recent discovery of Z_b states at the Belle experiment implies possible existence of a new family of hadronic resonances including molecular states dubbed W_{bj}. We search for these states in radiative decays of $\Upsilon(5S)$ resonance in data collected with the Belle detector at the KEKB asymmetric-energy electron-positron collider. No such additional hadronic states in the Z_b family have been observed yet. We use Monte Carlo simulation to study Belle sensitivity to W_{bj} production. We report the current status of our investigations to provide the best sensitivity to this decay in the existing data and to create a roadmap for future discovery.

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