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2+1 flavor QCD simulation near the physical point on a 96^4 lattice

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We present our preliminary results on 2+1 flavor QCD with the stout smeared O(a)-improved Wilson quark action and the Iwasaki gauge action. Simulations are carried out at a lattice spacing 0.085fm on a 96^4 lattice with the quark masses near the physical point. The reweighting technique and ChPT are employed for the extrapolation to the physical point. We will show the preliminary results of the light quark masses, the decay constants and the light hadron spectrum.

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