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A model for the color suppressed decay mode B^0 –> 2 \pi^0

I present a model for the color suppressed decay mode B^0 –> 2 \pi^0. The model is an extension of (heavy-light) chiral quark models. The color suppressed (nonfactorizable) decay mode is obtained in terms of a model dependent gluon condensate. The model can account for the experimental result. Unfortunately, the theoretical result obtained within the model is very sensitive to the two model dependent parameters: The gluon condensate and the constituent light quark mass.

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