

A model for the color suppressed decay mode $B^0 \rightarrow 2 \pi^0$

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I present a model for the color suppressed decay mode $B^0 \rightarrow 2 \pi^0$. 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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