

— 第965回九大原子核セミナー —

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演題： Structure of Be9-Lambda with alpha-alpha-Lambda microscopic cluster model

日時： 6月5日(金) 16:00～

場所： (※ オンラインセミナー)

概要

We study the structure of Be9-Lambda in the framework of three body alpha+alpha+Lambda cluster model by using the realistic NN and YN interaction. With applying the complex scaling method into Gaussian expansion method, we obtain both the energy and decay width of the resonances of Be9-Lambda(T=0). The three particular structures of Be9-Lambda: Be8 analogue states, Be9-Lambda genuine states and Be9 analogue states are confirmed with calculating the overlap probability with the SU(3) shell model configurations. We find several resonances which are pointed out by the previous studies of Be9-Lambda, are missing. The new states of Be9-Lambda are also found at a high energy region and there might appear new structures.

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2020年5月16日