



Fermion localization on degenerate and critical branes

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In this work we analyze the localization of fermions on degenerate and critical Bloch branes. This is done directly on the original extra-dimensional spatial variable r , in contrast to some works that has been using the variable defined by $dz=e^{-A(r)}dr$, which may lead to some inconsistencies pointed out here. The issue of fermion localization on degenerate Bloch branes is highlighted since the choice of the coupling of fermions with the soliton is crucial for granting the correct localization on a double-brane.

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