

VECTOR MESONS AND THEIR LEPTONIC
DECAY CONSTANTS IN A BILOCAL
RELATIVISTIC POTENTIAL MODEL

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The bilocal relativistic potential model (BRPM) is developed for description of vector mesons and their leptonic decays. A new Solpeter equation for vector mesons is proposed and, by considering the $\tau \rightarrow \rho\nu$ decay, a representation for a ρ -meson leptonic decay constant f_ρ is obtained. It is shown that the results obtained within the BRPM for the masses of vector mesons, and their leptonic decay constants are in good agreement with the experimental data and results of other phenomenological models.