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The rho-pi puzzle and vector glueball mixing

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The $\Psi(2S)$ is identified as the radial excitation of the J/Ψ . Based on perturbative QCD, the branching ratio of the $\Psi(2S)$ into some final hadron state should be approximately 12% of the branching ratio of the J/Ψ to that same hadron final state. This is called the “12% rule”. However, certain decay channels such as the $\rho\pi$ severely violate this 12% rule. Using the extended Linear Sigma Model, we study the effect a small mixing angle between the $\Psi(2S)$ and the vector glueball can have on the 12% rule.

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