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**Short title:** Research on the dynamic problems of 3D cross coupling quantum harmonic oscillator by virtue of intermediate representation  $|x\rangle_{\lambda,\nu}$ .

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**Primary classification:** 81Q05

**Secondary classification(s):** 81S30

**Review text:**

A more or less elementary exercise in (or, one could say, a rediscovery of) the Bogoliubov transformation.