

## Re: allowed transitions

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics/2007-06/msg02383.html>

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The old geezer wrote:

Hey folks, give me a little feedback on this. The books I've read all indicate that atomic fine structure consists only of two energy levels. However, I have been given reason to believe that for most excited states, there are more than two levels. Is this the case? How would I determine the number of levels in fine structure? Also, what are the selection rules for fine structure to fine structure transitions? Thanks.

Fine Structure Constant

<http://scienceworld.wolfram.com/physics/FineStructureConstant.html>

[http://en.wikipedia.org/wiki/Fine\\_Structure\\_Constant](http://en.wikipedia.org/wiki/Fine_Structure_Constant)

[http://en.wikipedia.org/wiki/Fine\\_Structure\\_Constant#Physical\\_interpretation](http://en.wikipedia.org/wiki/Fine_Structure_Constant#Physical_interpretation)

Perhaps I'm not understanding your question.