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Jerzy M Weyman* (j.weyman@neu.edu), 360 Huntington Avenue, Boston, MA 02115. *Some conjectures on the resolutions of defining ideals of Veronese embeddings.* Preliminary report.

I give some conjectures on the lengths of all linear strands of minimal free resolutions of the defining ideals of Veronese embeddings of projective spaces. They come from identifying "extremal weights" i.e. the highest weights that occur only once in the first term of a spectral sequence converging to the terms of these minimal resolutions. (Received September 29, 2005)