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Department of Mathematics, 14 MacLean Hall, Iowa City, IA 52242-1419. *Conjugate Diameters:  
Apollonius of Perga and Eutocius of Ascalon*. Preliminary report.

This talk will address the relationship between two works: Apollonius' *Conics* and Eutocius' commentary thereon. Eutocius' commentary should be seen as more than just a secondary text, since it is likely no coincidence that he comments on Books I-IV and that these books are the precise ones which are extant in Greek. In fact, his commentary is tied to the *Conics* and its textual transmission, since Eutocius also arranged and edited a new edition of Apollonius' work. I will illustrate how the two texts and their authors should be seen as linked, or "conjugate", along with ways in which they are not. (Received September 13, 2009)