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Boston Avenue, Medford, MA 02155. *Bruhat-Tits Buildings of Rank Three.*

We will talk about the existence of affine buildings whose building at infinity is a Moufang polygon. In particular, we will discuss the existence of valuations of the root datum of a Moufang polygon  $\Delta$ , paying particular attention to the case that  $\Delta$  is an exceptional Moufang quadrangle. (Received January 21, 2006)