Oded Yacobi* (yacobi@gmail.com), 33 Salem Ave., Toronto, Ontario M6H3C2, Canada, and Joel Kamnitzer, Ben Webster and Alex Weekes. Yangians and quantizations of slices in the affine Grassmannian.

We study slices to Schubert varieties in the affine Grassmannian. These are natural objects from the point of view of geometric Satake - they correspond to weight spaces of irreducible representations. We describe a quantization of these slices using subquotients of certain quantum groups called Yangians, and discuss the connections with quantizations of symplectic varieties and categorical g-actions. Based on joint work with Kamnitzer, Webster, and Weekes. (Received September 25, 2012)