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**Indika B Wijayasinghe\*** (ixw001@shsu.edu). *Differential geometric methods in eye movement problems.*

The space of eye orientations is viewed as a submanifold of unit quaternions, endowed with a Riemannian metric. The movement dynamics is derived by writing the associated Euler Lagrange's equation, with a generalized torque as control. (Received February 10, 2014)