

1075-58-49

Gerard Misiolek* (gmiiole@nd.edu). *Spherical geometry of $\mathcal{D}^s(M)/\mathcal{D}_\mu^s(M)$.*

I will describe the geometry of an H^1 Sobolev metric on the homogeneous space $\mathcal{D}^s(M)/\mathcal{D}_\mu^s(M)$ and the properties of the associated Euler-Arnold equation as well as connections to statistics. (Received August 16, 2011)