1060-57-158 Colin Adams* (cadams@wiliams.edu), Bronfman Science Center, Williams College, Williamstown, MA 01267, and Dan Collins, Katherine Hawkins, Charmaine Sia, Robert Silversmith and Bena Tshishiku. Indicatrices and Superinvariants of Knots.

The first superinvariant, superbridge number, was introduced by Kuiper in 1985. It has proved to be instrumental in determining stick numbers of knots. We consider this and other superinvariants and how they are related to certain labelings of the unit sphere associated to a conformation of a knot. These in turn are seen to be related to the tangent, normal and binormal indicatrices of the conformation. We examine duality that occurs between the various indicatrices and choices of labelings of the sphere. (Received March 29, 2010)