998-55-110 **Ismar Volic*** (ismar@virginia.edu), Department of Mathematics, University of Virginia, Kerchof Hall, Box 400137, Charlottesville, VA 22904. *Calculus of functors and spaces of knots.*

We will first introduce the spectral sequence converging to the cohomology of the space of knots in R^n, $n > 3$, arising from the calculus of the embedding functor, and then discuss its rational collapse at the E_2 term. The case of classical knots, $n = 3$, where the theory of finite type knot invariants is recovered, will also be mentioned. (Received February 17, 2004)