1154-VM-34 **Ritu Dhankar*** (p20180024@goa.bits-pilani.ac.in), Department of Mathematics, BITS Pilani K K Birla Goa Campus, Zuarinagar, 403726, India, and **Prasanna Kumar**, Department of Mathematics, BITS Pilani K K Birla Goa Campus, Zuarinagar, 403726, India. *Sendov conjecture for polar derivative of polynomials.*

Sendov conjecture states that, for a polynomial with each zero in the closed unit disk in the complex plane, every closed disk of radius 1 centered at a zero will contain a critical point of it. In this paper, we present the analogue of it for 'polar derivative' of polynomials, which includes the relative location of zeros of polynomials with that of their polar derivatives. We also prove some special cases, which might eventually answer the same for Sendov conjecture.

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