1083-30-141   **Jun Hu** and **Susovan Pal*** (`susovan97@gmail.com`), NJ 08904. *On Boundary regularity and Asymptotic Conformality of Douady-Earle extensions of diffeomorphisms of S^n.*

Let f be a C^1 diffeomorphism of the unit sphere S^n. We show that $\Phi(f)$ is C^1-smooth self map of B^{n+1} which is C^1 upto the boundary of B^{n+1} and in general not asymptotically conformal near the boundary except for $n = 1$. In particular, we show that when f is orientation-preserving and $n = 1, \Phi(f)_z \to 1, \Phi(f)_{\bar{z}} \to 0$, and $\Phi(f)$ is always asymptotically conformal near the boundary. (Received August 26, 2012)