1154-30-895Javad Mashreghi* (javad.mashreghi@mat.ulaval.ca), 1960 Boul. Laurier, Quebec, QC G1S
1M8, Canada. Outer functions and uniform integrability.We show that, if f is an outer function and $a \in [0, 1)$, then the set of functions

 $\{\log | (f \circ \psi)^* | : \psi : \mathbb{D} \to \mathbb{D} \text{ holomorphic}, |\psi(0)| \le a \}$

is uniformly integrable on the unit circle. As an application, we derive a simple proof of the fact that, if f is outer and $\phi : \mathbb{D} \to \mathbb{D}$ is holomorphic, then $f \circ \phi$ is outer. (Received September 11, 2019)