1113-47-151 Aleksej Turnsek* (aleksej.turnsek@fmf.uni-lj.si), University of Ljubljana, 1000 Ljubljana, Slovenia. *Circular two-sided multiplications.*

We will consider circular and strongly circular two-sided multiplications $\phi(X) = AXB$ acting on $\mathcal{B}(\mathcal{H})$ or on minimal norm ideals of $\mathcal{B}(\mathcal{H})$. We will prove that strong circularity of ϕ implies circularity of A or of B. If A and B are irreducible and ϕ is acting on some minimal norm ideal different from the Hilbert-Schmidt class, then ϕ is strongly circular if and only if A or B is strongly circular. These results partially answer a question posed by F. Botelho, J. Jamison, B. Zheng, *Circular operators on minimal norm ideals of* $\mathcal{B}(\mathcal{H})$, Linear Multilinear Algebra 61 (2013), no. 10, 1339–1347. (Received August 19, 2015)