1154-16-680 **K. Radler*** (katie.radler@slu.edu), **S. Esin**, **M. Kanuni**, **A. Koç** and **K. M. Rangaswamy**. *An ideal analogue to the property $lcm(a,b) * gcf(a,b) = ab$ for Leavitt path algebras.*

One of the elementary facts about integers is that given any two integers, the product of the greatest common divisor and the least common multiple is equal to the product of those two integers. We obtain an analogue of this for ideals in Leavitt path algebras by proving that given two ideals $A$, $B$ of a Leavitt path algebra, we have $(A+B)(A\cap B) = AB$. (Received September 09, 2019)