## 1145-17-450 **Tyler Kenefake\*** (tylerkenefake@my.unt.edu). Annihilators of Indecomposable Bounded Modules of $Vec(\mathbb{R})$ .

We report on work in progress towards computing the annihilators of certain indecomposable bounded modules of  $\operatorname{Vec}(\mathbb{R})$ , the Lie algebra of vector fields on the line. The annihilators of the tensor density modules  $\mathcal{F}_{\lambda}$  are known. We describe the annihilator of the extension of  $\mathcal{F}_{\lambda}$  by  $\mathcal{F}_{\lambda+2}$  in the subalgebra of lowest weight vectors of  $\mathfrak{U}(\operatorname{Vec}(\mathbb{R}))$ , the universal enveloping algebra of  $\operatorname{Vec}(\mathbb{R})$ , in the non-resonant case  $\lambda \neq -\frac{1}{2}$ . (Received September 06, 2018)