1172-35-24 **Huajun Gong**, **Tao Huang*** (`taohuang@wayne.edu`) and **Changyou Wang**. *Existence of global weak solutions to the compressible Ericksen-Leslie system in dimension one.*

We consider the compressible Ericksen-Leslie system of liquid crystal flows in one dimension. A global weak solution is constructed with initial density $\rho_0 \geq 0$ and $\rho_0 \in L^\gamma$ for $\gamma > 1$. (Received August 05, 2021)