1038-14-147   **Nero Budur*** (`nbudur@nd.edu`), Department of Mathematics, 255 Hurley Hall, Notre Dame, IN 46556. *Connections between $\mathcal{D}$-modules and multiplier ideals.*

The complexity of the singularities of a divisor D in a nonsingular variety X is somewhat encoded in the multiplier ideals of D. It is known that multiplier ideals are related to the V-filtration on $\mathcal{D}$-modules. A natural question is what other $\mathcal{D}$-modules reflect the singularities of D. We will describe a connection between certain local systems on $X - D$ and the multiplier ideals of D. (Received February 05, 2008)