1067-03-724   **Johan G. F. Belinfante*** (`belinfan@math.gatech.edu`), 1238 Jody Lane NE, Atlanta, GA 30329-3520. *The GOEDEL Program.*

The GOEDEL program is an ever-growing collection of currently more than thirty thousand rewrite rules for transforming expressions in Gödel's class theory in the hope of thereby simplifying them. In this talk a brief survey of the program and its use will be presented. A few striking results obtained using the program are featured to provide some of the flavor of the author's on-going research over the past fifteen years. (Received September 16, 2010)