1154-C5-1194   **Alexei Kolesnikov*** (`akolesnikov@towson.edu`), Department of Mathematics, Towson University, 8000 York Rd., Towson, MD 21252. *Automated transcription of a mathematics textbook into Nemeth Braille.*

Blind students studying mathematics have to request a Braille copy of their mathematics textbook at least one semester in advance. The limitation is due to the fact that the process of producing Nemeth Braille textbook from the source files is not automated. Even commercial products are not sufficiently robust to produce reliably accurate results.

The goal of the project described in this talk is to build an open-source automated system that would be good enough to translate an advanced undergraduate-level mathematics textbook into Nemeth Braille. I will describe the process used in the project and will talk about progress and challenges. (Received September 13, 2019)