1135-68-2846   **John R. Johnson*** (`john.johnson@pnnl.gov`), 902 Battelle Boulevard, P.O. Box 999, MSIN K9, Richland, WA 99352, and **Emilie AH Purvine** (`emilie.purvine@pnnlgov`), 1100 Dexter Ave N., Suite 400, BSRC, Seattle, WA 98109. *Graph Theory and the Mathematics of Cybersecurity.* Preliminary report.

Cybersecurity has its mathematical roots in formal methods for access control of single systems. However as cyber systems have become ubiquitous over the past few decades, and computers have become massively interconnected, the diversity of mathematical fields that are directly relevant to the study and practice of cybersecurity has rapidly increased. This talk will provide an overview of this mathematical evolution with an emphasis on the growing importance of graph applications (Received September 26, 2017)