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Nguyen Hoang Lam* (nlam@grenfell.mun.ca), Memorial University of Newfoundland,
Grenfell Campus, 20 University Drive, Corner Brook, NL A2H6R7, Canada. *p-Bessel pairs and
Hardy type inequalities.*

In this talk, we discuss the notion of p -Bessel pairs and its applications to Hardy identities. We will also present several examples of p -Bessel pairs and the Hardy type inequalities with remainder terms and virtual optimizers. This is joint work with Nguyen Tuan Duy, Joshua Flynn and Guozhen Lu. (Received July 30, 2020)