1050-05-69   **M. E. Muzychuk*** (`misha.muzychuk@gmail.com`), Dept. of Comp Science ans Mathematics, Netanya Academic College, University st. 1, 42365, Netanya, Israel, and **I. N. Ponomarenko** (`inp@pdmi.ras.ru`), Petersburg Dept. of Institute of Mathematics, 27, Fontanka,191023, St. Petersburg, Russia. *On pseudocyclic association schemes.* Preliminary report.

A pseudocyclic association schemes were introduced by D.H.L. Hollman in 1982. We extended this notion for non-commutative schemes. In our talk we present recent result about pseudocyclic non-commutative schemes. We will show their relationship with block designs and permutation groups. We also will formulate some open problems. (Received February 24, 2009)