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Thomas C Hales* (hales@pitt.edu), Math Department, Thackeray Hall 416, University of Pittsburgh, Pittsburgh, PA 15260. *Transfer Principle for the Fundamental Lemma.*

The purpose of this talk is to explain how the identities of various fundamental lemmas fall within the scope of the transfer principle, a general result that allows to transfer theorems about identities of p-adic integrals from one collection of fields to others. In particular, once the fundamental lemma has been established for one collection of fields (for example, fields of positive characteristic), it is also valid for others (fields of characteristic zero). (Received August 10, 2008)