1021-03-80   **Steffen Lempp*** (`lempp@math.wisc.edu`), Department of Mathematics, University of Wisconsin, 480 Lincoln Drive, Madison, WI 53706-1388, and **Serikzhan A. Badaev** (`badaev@kazsu.kz`), Department of Mechanics and Mathematics, Kazakh National University, Almaty, 480012, Kazakhstan. *A decomposition of the Rogers semilattice of a family of d.c.e. sets.* Preliminary report.

We present a result in the theory of numberings. The Rogers semilattice of a family of c.e. (or d.c.e.) sets is the set of all uniformly c.e. (or d.c.e., respectively) enumerations of the family, modulo computable reduction.

Khutoretskii's Theorem states that the Rogers semilattice of any family of c.e. sets has either at most one or else infinitely many elements. A lemma in the inductive step of the proof shows that no Rogers semilattice can be partitioned into a principal ideal and a principal filter.

We show that such a partitioning is possible for some family of d.c.e. sets. The question of whether the full statement of Khutoretskii's Theorem fails for families of d.c.e. sets remains open. (Received August 25, 2006)