## Radicals and principal functors of module categories Kashu A.I. ( (Chişinău, MOLDOVA)

The most important types of functors for module categories are the functors Hom ( covariant H and contravariant H') and the functor of tensor multiplication (T). Every such functor is accompanied by a set of classes of modules with different properties. These classes in their turn determine a set of preradicals ( of special types ) of module categories: radicals, torsions etc.

The investigated questions:

- 1) properties of preradicals associated to principal functors;
- 2) relations between associated preradicals for every functor H, H'and T;
- 3) conditions of coincidence of some "near" preradicals;
- 4) comparison of studied cases ( H, H' and T ): similitude and duality.