1.7. Final state interaction in the mesonic decay of hypernucleus ${}^{5}_{\Lambda}$He

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1.8. Meson hyperfragments of A → 5 produced by the interaction of K^- mesons at rest in nuclear emulsions

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Owing to the research carried out within the framework of the European K^- collaboration about 2700 meson hyperfragments (HF) with A > 5 have been studied. The better statistics and stricter selection criteria made it possible to determine more precisely the binding energies of the hyperons in HF. Thereby it has been stated that there is no hypernucleus ${}^{6}_{\Lambda}$Li, that ^{7}Li exhibits no exhausted states, which could not be stated for ${}^{7}_{\Lambda}$He, further the binding energies for several groups of mirror HF have been determined and compared, which makes it possible to study the symmetry violation with respect to charge in the interaction of λ hyperon with nucleons; a new HF, ${}^{10}_{\Lambda}$Be, has been discovered and so on.

Also the excited state of the hypernucleus ${}^{11,12}_{\Lambda}$C and the excitation energy have been determined.