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## **On possibility of experimental determination of integral characteristics of molecular component of mixing by means of X-ray technique**

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In the present work there was made the first attempt of experimental determination of integral quantity of substances, which were mixed molecularly, over the time in experiments with the Rayleigh-Taylor turbulence. There were used mutual soluble liquids in the experiments. There was determined the averaged density of matter in the zone of the Rayleigh-Taylor turbulence at the separation stage by means of X-ray technique. The density distribution of matter conditioned by the molecular component was measured at the moment of finishing of the total separation of heterogeneous structures.