

Recently, we have thoroughly studied the tracks forming the $M/Z=3$ parabola on detectors exposed in the Thomson analyzer. Besides heavy multiply charged ions, we have discovered two groups of tracks on this parabola. One group (according to the results of the track analysis) is associated with hydrogen ions ($1 < V < 2$ in the region of paths 2-6 μm), and the other group with helium ions ($2 < V < 4$ in the region of paths 5-10 μm). We note that the single isotope of hydrogen, which satisfies the $M/Z=3$ condition, is tritium. Among the nuclei of helium, this condition is met by isotope ${}^6\text{He}$. The total number of tracks associated with these two groups is estimated at the level of 1% of the amount of deuterium tracks on the $M/Z=3$ parabola.

Thus, we confirmed the presence of unstable isotopes of hydrogen and helium in the corpuscular emission of the metal target explosion with the help of track detectors and a Thomson analyzer.