$^{56}$Cu mass measurement with LEBIT

- Previous predictions for the mass excess of $^{56}$Cu results in vastly different rp-process flow near $^{56}$Ni. To elucidate the situation, we performed a direct mass measurement of $^{56}$Cu using the LEBIT Penning trap.
- The new mass results in a redirection of some of the flow through the $^{55}$Ni$(p,\gamma)$ route, bypassing the $^{56}$Ni waiting-point and resulting in a reduction of ashes near $^{56}$Ni.