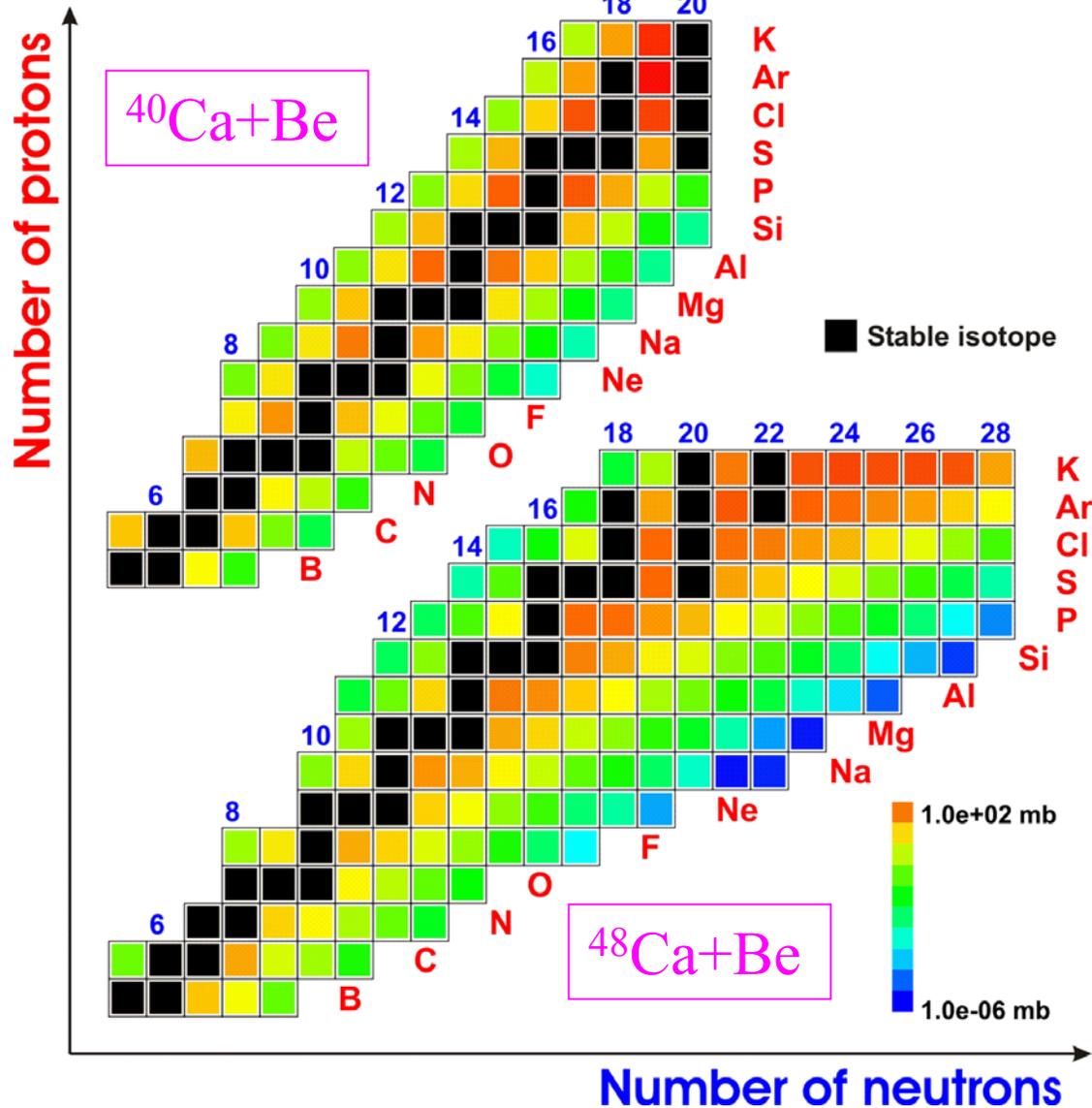


Production yield of unstable isotopes from projectile fragmentation of ^{40}Ca and ^{48}Ca



Projectile fragmentation is used extensively to produce rare isotopes at NSCL and at RIA. Understanding the physics behind rare isotope production using n-rich beams is important in the operation of NSCL and RIA.

For example, the 8 extra neutrons in ^{48}Ca produce nearly twice as many isotopes, most of which are n-rich.