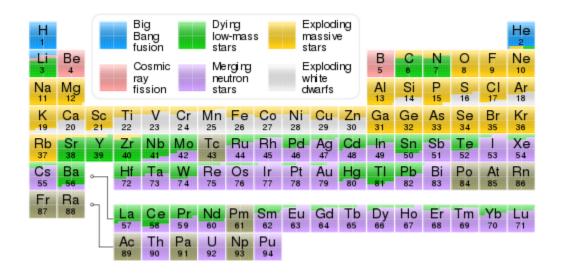
3 Huge Results, 10/16/2017

- 1. Gravitational waves "confirmed" with electromagnetic counterpart
- 2. GRBs (dt<1s) are due to binary neutron star mergers, and are beamed
- 3. Neutron star explosions (kilonova) produce the Universe's heavy elements (>Fe)



3 Key Papers (further reading):

Chornock et al., ApJL, "The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. IV. Detection of Near-infrared Signatures of r-process Nucleosynthesis with Gemini-South"

Tanvir et al., ApJL, "The Emergence of a Lanthanide-rich Kilonova Following the Merger of Two Neutron Stars"

Troja et al., Nature, "The X-ray counterpart to the gravitational-wave event GW170817"