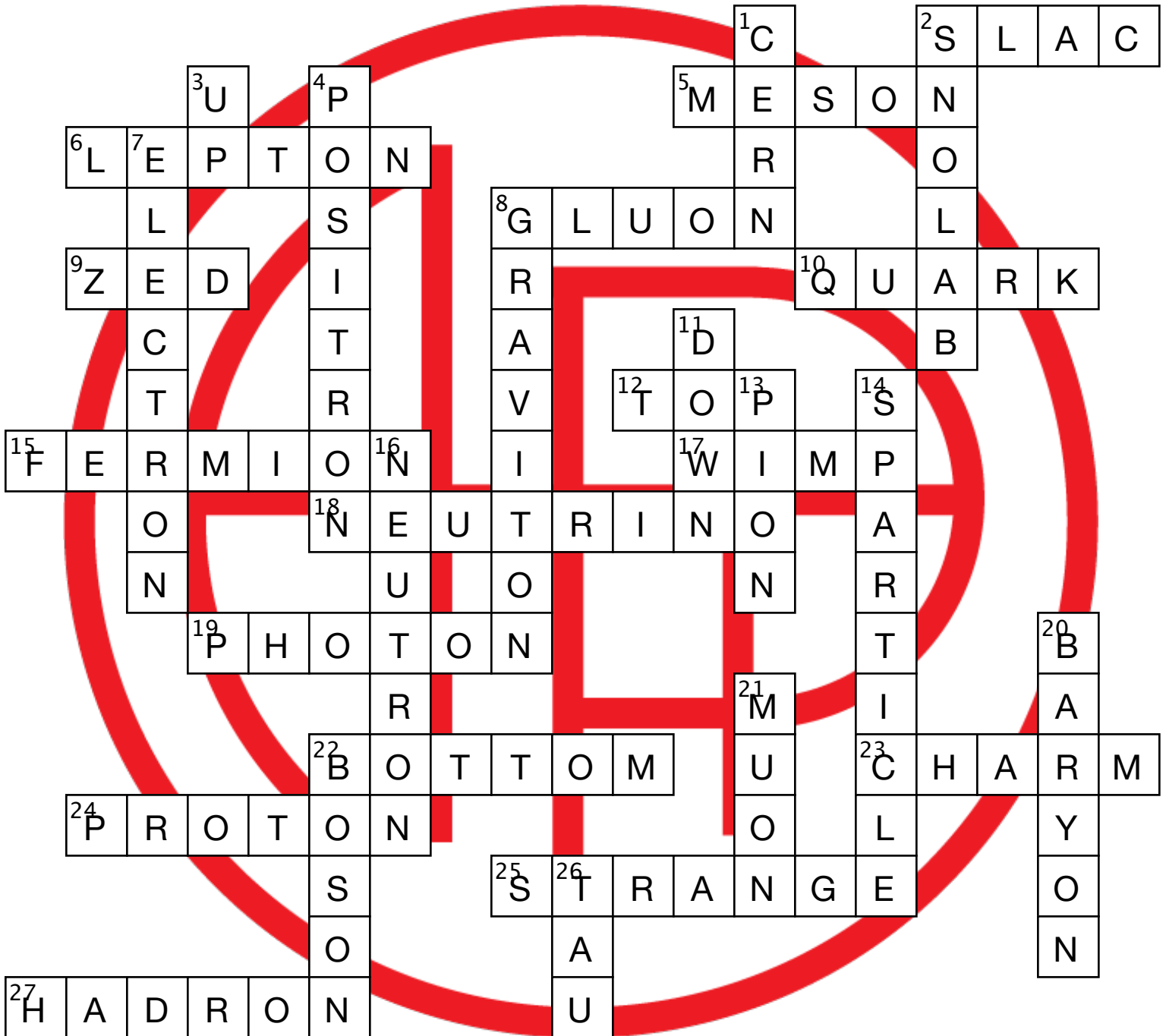


Particle Physics



Across

- despite its lazy name, this physics lab produced three Nobel prizes [SLAC]
- you'll find this particle in the middle [MESON]
- a very flavourful particle [LEPTON]

Down

- this famous particle lab doesn't really have its own police force, despite what Dan Brown says [CERN]
- a Canadian particle physics lab; not as cold as it sounds [SNOLAB]

Across

8. drawing an interaction diagram with these particles is a bit sticky [GLUON]
9. a boson, but in spite of its name not the last particle discovered [ZED]
10. this particle is a bit cheesy [QUARK]
12. this quark is top-heavy [TOP]
15. a French agricultural particle [FERMION]
17. possible dark matter that ignored Charles Atlas [WIMP]
18. like Bertie Bott's Beans, these particles can change their flavour [NEUTRINO]
19. a familiar exchange particle, used in torpedoes [PHOTON]
22. the most beautiful quark, although few admit it nowadays [BOTTOM]
23. the nicest quark [CHARM]
24. these particles get paid tons of money for their job [PROTON]
25. the weirdest quark; very long-lived [STRANGE]
27. these particles are at the centre of all atomic models [HADRON]

Down

3. the lightest quark; has its own movie [UP]
4. what Ben Franklin thought the electron was [POSITRON]
7. this particle gets into such a state when it's excited [ELECTRON]
8. a serious exchange particle [GRAVITON]
11. this quark is rather sad [DOWN]
13. a baker's favourite meson [PION]
14. a hypothetical partner particle having nothing to do with the Thracian gladiator [SPARTICLE]
16. This particle walks into a bar and asks how much for a beer. "For you," replies the bartender, "no charge." [NEUTRON]
20. where particle physicists go to drink [BARYON]
21. a cat's favourite particle [MUON]
22. in bad light this particle might be mistaken for a seaman [BOSON]
26. differing from the way by a single letter [TAU]