

2. Paoli, IN by Ucaoimhu

You say it “pay-O-lee,” to stress that it is indirectly named for the general (Pasquale Paoli, of Corsica’s Paoli family), not the physicist (Pauli, of Austria’s Pascheles/Pauli family); to further separate them:

Physicist (Pauli): In one word from each of sixteen clues a *key letter* must be selected, based on which the word must be altered before solving in one of two ways relevant to electrons and other leptons:

(a) Pauli exclusion (no two leptons can exist in the same state): Within the word, *all instances but one* of the key letter must be removed, in each case by moving some *other* letter of the word (in the P–U range) rightward to replace it.

(b) $\frac{1}{2}$ spin (leptons have half-integer spins): Half of the word must spin, drop the key letter, and then travel to the other side of the other half (moving in a direction that the key letter *could* indicate).

As further assistance, the (a) and (b) clues can be ordered, alternating, in a loop in which each clue’s answer indicates the key letter of the *next* clue; an (a) answer contains the direction word the next (b) key letter stands for (and has the orientation that direction requires), while a (b) answer will hint at the term used for the next (a) key letter when it is communicated using radio-frequency photons.

General (Paoli): In general POs receive letters; the twenty-six other clues must each receive (for some $n = 1\text{--}3$) n copies of one letter before solving (a different letter for each clue). In each case, circle the clue’s n th-from-last letter. Also, for any clue whose *received letter* is among (a) and/or (b)’s *key letters*:

(c) If any received copy of the letter is the m th letter of the clue once all copies have been received, darken the m th square of the clue’s answer space in the grid.

The shape formed in the grid by (c) has multiple interpretations; read the circled letters for (c) clues, and separately those for non-(c) clues (each alphabetically by received letter) to get, respectively, a physicist’s and a general interpretation.

ACROSS

1. # of reactions to ocular esters displayed by husband (4)
3. Thus trapping Carson and Bill with Grover Cleveland (8)
8. Within 100', $\frac{1}{3}$ pleaded and split (5)
12. Odd installments of TV’s *Kraken* (lo!) circulate minimally (5)
13. In sorting event, using rackets filled with radium-501 is usual tactic (5 8)
14. Hone, maybe with stone split by teens and grating philosopher Descartes (9)
15. Reverser’s chest logo from the 1950s Lotto, which Wes stops encountering later than anyone else (7 2)
16. Pull Gus out of uni, then bus Han from Provo or Orem (5)
17. A vita shown in, perhaps, a shoebox or

- Iago’s case in *Othello* (or *Richard II*) (7)
19. Affleck having to start genially with Sean from *Lord of the Rings* (4)
21. Red pond in a wharf *que es loco* (4-3)
22. *Pace Ion*’s Den actor Hawke behind Morton misspelled “but” (3 4 4)
23. Say, re car stock that’ll be ♡-shaped and inscribed with words soon (?), mostly “Common at _____” (9 2)
25. Pony fora sin to such a degree (7)
27. Eternally avuncular twit Mike and small war god from Ovid (4)
28. Slag term meaning “worry about that snake we put next to some avian” (5 2)
29. NY legislator Henry is a juvenile critter removed when you bugled? (5)
31. Most glaring, stern 75% of rabbits worked to get Grand Hyatt emptied (9)
33. One I — or Rance and Mary Jane! — put around lady with no gems (9) [NI2]
35. Lagniappe, onus, or perk other Cuban gets Alex, added onto tip on stew (8 5)
36. Underground illustrated works from 909 describing chef from Oahu (5)
37. Praise bits of darter & British rolls (5)
38. Unsworn in back of Missouri actress Spelling’s temporary dwelling (5 3)
39. Like suid fluid beyond L’ville? (4)

DOWN

1. Is optimistic shoetree (before the end) will store £500, old uranium, and beer flavorant in separate niches (5 3 4)
2. Lieutenant Herrera exhibits acuity in front of ET obstructing cruise (9)

4. Hot, posh Uc’s oological category! (5)
5. Tying, e.g., any cue, gem-destroyer, etc. that’s offered to Swiss people (and thus Inga, holding Swiss 3 *T-Men* tee) (10 9)
6. Tam near CA bass, Nice’s deliverer, bronze cans, and tractor (making a U) help when a lesson is given? (9 10)
7. Big Lego P on top of slipper in pair (5)
8. Def COs ’n’ nice bread, intermingled alongside (secondarily) gherkin! (6 4 8)
9. Trebling merchants with supersonic-speed-studying godfather of Pauli (5 4)
10. Change ring to figure that shows one Erlang and two others (6)
11. A miler’s equipment that has worried Norm, and worsened clash with local colleges that teach teaching staff (5 6 7)
17. Possess really hollow spears Penny’s giving actors Robert Sr. & Robert Jr. (7)
18. Casanova’s elevated name for *la città italiana* that is gestural is ↕ (7)
20. Around year 60 order (d’oh!) a Disney movie that is computer-animated and roughish at heart, in a strange way (12)
24. Aunt Molly, from beneath, trimmed little thin and wheellike item (9)
26. Nonsolo male military singer Sumac will resent cooler (6 3)
30. Vine group absorbing boron and two rows of elements usually put below the bulk of the table of Mendeleev (1 5)
32. Ran me ragged to supply some Xe or mace, in an ER in the past (5)
34. Bygone raft store vexed Jan? No (5)

