

DOUBLE CHARM TETRAQUARKS AND OTHER EXOTICS

in memoriam, Gabriel Karl
1937-2020



*Missing: Gabriel, with
head slightly tilted and
an impish smile*



What (according to INSPIRE) Gabriel was up to when I first got to know him (while doing my PhD with Nathan Isgur, 1977-1982)

- 1977: Hyperfine interactions in negative parity baryons [538 citations]
- 1978: Symmetry breaking in baryons [237 citations]
- 1978: P-wave baryons in the quark model [1469 citations]
- 1979: Positive parity excited baryons in a quark model... [1043 citations]
- 1978: Violations of SU(6) relations from quark hyperfine interactions [202 citations]
- 1979: Ground state baryons in a quark model ... [610 citations]
- 1979: Charmed baryons in a quark model ... [237 citations]
- 1980: Ground state baryon magnetic moments [196 citations]
- 1980: Quark magnetic moments and E1 radiative transitions in charmonium [58 citations]
- 1980: Branching ratios in baryon decays [69 citations]
- 1981: The neutron charge form factor in a quark model ... [102 citations]
- 1981: Strangeness -2 and -3 baryons in a quark model ... [133 citations]
- 1981: Comment on the proton decay mode $p \rightarrow \pi^0 e^+$ [38 citations]
- 1982: D waves in the nucleon: a test of color magnetism [200 citations]
- 1982: Are there baryons which contain constituent gluons [103 citations]

Finally, in keeping with the dedication of this workshop to Gabriel's memory: a few papers from later in his career which mark him as a kindred spirit of this workshop

- 1986: SU(3) symmetry breaking in $\bar{c}s u u d$ bound state
- 1987: H dibaryon spectroscopy
- 1993: Exotica: Survey of exotic mesons
- 1993: Strength of π exchange in hadronic molecules

ANOTHER COLLEAGUE LOST THIS YEAR WHO WILL BE DEARLY MISSED

Simon Eidelman
1948-2021

