

References for Technicolor (TC) talk

1. **Gauge Theory Of Elementary Particle Physics**, T.P.Cheng and L.F.Li, 1985. Oxford, UK: Clarendon (1984) 536 P. (Oxford Science Publications). Chapter 5 was used for the introductory discussion on chiral symmetry breaking, Chapter 13.1. has a brief, but good, introduction to TC and extended TC, and also discusses the general idea of tumbling.
2. **Strong dynamics and electroweak symmetry breaking**, C.T.Hill and E.H.Simmons. FERMILAB-PUB-02-045-T, BUHEP-01-09, Mar 2002. 279pp. Published in **Phys.Rept.381:235-402,2003, Erratum-ibid.390:553-554,2004**. e-Print: **hep-ph/0203079**. My main reference. An excellent overview on all things TC (and I'm not just saying that because it was co-written by my Masters' thesis advisor). Covers almost all the subjects touched on in my talk and much more. The discussion of chiral symmetry breaking focusses on more on the Nambu-Jona-Lasinio model and the section on tumbling is quite sketchy, so it is advisable to read Ref. 1 first, as an introduction.
3. **Technicolor 2000**, K.D.Lane, BUHEP-00-15, May 2000. 46pp. Lectures given at LNF Spring School in Nuclear Subnuclear and Astroparticle Physics, Rome, Italy, 15-20 May 2000. Published in *Frascati 2000, Nuclear, subnuclear and astroparticle physics* 235-280. e-Print: **hep-ph/0007304**. Good Lecture notes on TC, contains more motivating prose than the other two and is therefore a better read.
4. Reference 2 has a large list of references for all aspects of TC. Concerning the question raised during my talk, I mention one paper from this list: **Technicolor Cosmology**, R.S.Chivukula, T.P.Walker, BUHEP-89-14, CFA-2903, Jun 1989. 26pp. Published in **Nucl.Phys.B329:445,1990**. This paper deals with the fact, that the stable lightest technibaryon is in general cosmologically problematic.