

possible literature:

- Introduction to Experimental Constraints on Higgs Particles (S,T,U parameters): hep-ph/0411179, hep-ex/0509008, hep-ph/0512377 (TASI lectures 2004), Phys.Rev.D46:381-409,1992 (oblique parameters, extensive), webpage of the Particle Data Group, hep-ph/0702124 (TASI 2006, concentrating on LHC/ILC physics), hep-ph/0503172 (title: "The Anatomy of electro-weak symmetry breaking. I: The Higgs boson in the standard model"), arXiv:0706.0684 [hep-ph], Pramana 62:283-305,2004, hep-ph/0003170, [→ Manfred ?]
- Idea of Dynamical Symmetry Breaking: hep-ph/0703050 (some recent results), Phys. Rev. D10:2428-2445,1974, [→ Manfred]
- Technical Aspects of Dynamical Symmetry Breaking: [→ Manfred]
- Technicolor (idea+simple realization): Cheng/Li, pp. 401, hep-ph/0703050 (some recent results), [→ Manfred]
- Little Higgs Models: hep-ph/0506313 (overview), hep-ph/0502182 (overview), hep-ph/0512128 (overview), hep-ph/0206021 (Littlest Higgs), hep-ph/0206020, hep-ph/0302049 (LH from simple group), hep-ph/0407143 (simplest little Higgs), hep-ph/0306034, hep-ph/0303001 ("littlest Higgs" with custodial $SU(2)$), hep-ph/0607205 (connection to deconstruction), hep-ph/0510294, hep-ph/0509357 (little Higgs with SUSY), hep-ph/0301040, hep-ph/0506313, hep-ph/0506206, some Buras papers about K , B physics and LFVs in Little Higgs models (phenomenology), hep-ph/0303236, hep-ph/0601126, hep-ph/0311038, hep-ph/0312053, hep-ph/0502096 (Little Higgs and electroweak precision tests), hep-ph/0502066 (fine-tuning analysis), hep-ph/0306184, hep-ph/0309182, hep-ph/0407358, hep-ph/0410107 (with flavor symmetry), hep-ph/0502175 ("little technicolor"), arXiv:0705.0697 [hep-ph] (anomaly of T parity ?!)
- Twin-Higgs Models: hep-ph/0506256, hep-ph/0510273, hep-ph/0512088 (LR symmetry inspired), hep-ph/0604076 (with SUSY), hep-ph/0701071 (ρ parameter), arXiv:0707.3650 [hep-ph] (little twin Higgs model)
- Gauge-Higgs Unification (+intro to EDs): hep-ph/0510275 (symmetry breaking in EDs), hep-ph/0601213 (Les Houches lectures, concentrated on warped models and holography), hep-ph/0512182, hep-ph/0605325 (phenomenology of EDs), hep-ph/0102090, hep-ph/0102307, hep-ph/0306259 (Higgs as composite PGB, warped EDs), hep-ph/0602149 (with bulk mass term), hep-ph/0601241, arXiv:0705.1334 [hep-ph] (with warped EDs), arXiv:0706.1397 [hep-ph] (with GUT), hep-ph/0503179 (with flavor symmetry), hep-ph/0703107 (gauge, Higgs and matter unification), hep-ph/0703017, hep-ph/0703018 (S and T parameter), hep-th/0108005, hep-ph/0410193, hep-ph/0210133 (6D model), hep-ph/0511046 (as effective theory)
- Deconstruction: hep-ph/0206020, hep-ph/0202089, hep-ph/0607205 (connection to little Higgs), hep-ph/0105239, hep-th/0104005, hep-th/0104035, hep-ph/0702281 (unitarity), hep-ph/0306296 (phenomenology)
- Lee-Wick Model: arXiv:0704.1845 [hep-ph]; Nucl. Phys. B9:209-243,1969, Phys. Rev. D2:1033-1048,1970 (original works); arXiv:0704.3458 [hep-ph], arXiv:0705.1188 [hep-ph], arXiv:0708.0567 [hep-ph] (phenomenology studies), Nucl. Phys. B12:281-300,1969.
- Conformal Symmetry: hep-th/0612165, arXiv:0704.1165 [hep-ph], arXiv:0706.1829 [hep-ph] (neutrino masses), Phys. Rev. D7:1888-1910,1973 (Coleman/Weinberg), Phys.Rev.D13:3333,1976, hep-ph/0701254, hep-th/0403039, Phys. Rev. Lett. 61:2182,1988, arXiv:0708.1463 [hep-ph] (phenomenology), [Mathias, you know the literature much better than I do]

and literature which might be interesting for all of us: hep-ph/0608079 (Workshop on CP Studies and Non-Standard Higgs Physics, about 530 pp.); hep-ph/0405040 (overview), webpage of the Particle Data Group, talk by Cheng, Hsin-Chia at SUSY07 (title: "Little Higgs, non-standard Higgs, no Higgs and all that") (in his talk he treats more models than we discuss in our seminar, especially his list of references is interesting); talk by Vyacheslav Rychkov at SUSY07 (title: "Is the Higgs boson elementary or composite?", more general ansatz than

the Little Higgs models, but quite similar, publication: arXiv:0706.0432 [hep-ph])¹; Phys.Rev.D46:381-409,1992 (oblique parameters, extensive), some original ideas:Phys. Lett. B143:152,1984, Phys. Lett. B145:216,1984, Nucl. Phys. B254:299,1985, Hosotani's papers from 1983/1984; hep-ph/0702281 (unitarity); hep-ph/0701145 (Higgs and hidden sector); hep-ph/0611358 (gaugephobic Higgs, EDs); hep-ph/0609152 ("folded" supersymmetry); hep-ph/0607058 (review of some models), hep-ph/0511002 (composite Higgs), hep-ph/0701044 (topological physics of Little Higgs bosons)

If you find some literature which might be interesting for the others, just write an email to all of the theory Ph.D. students. If you do not find enough literature concerning your own topic, you can also ask the others or me. Especially for the people who will speak about DSB and technicolor it could very helpful to ask Manfred for some references and also perhaps for the talk "Introduction to Experimental Constraints on Higgs Particles".

¹SUSY07 talks can be found at <http://www.susy07.uni-karlsruhe.de/program.php>