

WG2 Yellow Book Planning

Chapter 1: New Physics Scenarios (~40 p.)

- **Overview** (WG2 Conveners) (3 p.)
- **SUSY (MFV, non-MFV, Specific)** (Benchmark Models contact persons + contrib) (15 p.)
- **Non-SUSY** (Benchmark Models contact persons + contrib) (7 p.)
- **Model independent analyses** (Benchmark Models contact persons + contrib) (7 p.)
- **Methods and tools** (Tools contact persons + contrib) (8 p.)

Chapter 2: Hadronic Uncertainties (~20p.)

- Overview (WG2 Conveners)
- Non-perturbative input from lattice QCD
- Non-perturbative input from QCDSR
- Exclusive decays

(Buchalla + contrib)

Chapter 3: New Physics in Benchmark Channels (~100p.)

- Prospects for existing and future facilities (WG2 Conveners) (10 p.)
- Benchmark channels:
 - Radiative penguin decays (Gambino, Golutvin + contrib) (10 p.)
 - Electroweak penguin decays (Feldmann, Berryhill + contrib) (10 p.)
 - Neutrino modes (Grossman, Iijima + contrib) (10 p.)
 - Very rare decays (Nierste, Smizanska + contrib) (10 p.)
 - UT angles (tree-dominated) (Soni, Bona, Trabelsi, Wilkinson + contrib) (10 p.)
 - B_s mixing (Lubicz, van Huten + contrib) (10 p.)
 - $b \rightarrow s, b \rightarrow d$ hadronic decays (Ciuchini, Muheim + contrib) (10 p.)
 - K decays (Buras, Komatsubara + contrib) (10 p.)
 - Charm decays (Fajfer, Asner + contrib) (10 p.)

Chapter 4: Assessments (~30p.)

- New physics patterns and correlations (WG2 Conveners + Isidori + Okada + contrib) (10 p.)
- Connections to high-pt and lepton physics (WG2 Conveners + Parodi + Heinemeyer + contrib) (10 p.)
- Discrimination between NP scenarios (WG2 Conveners + Isidori + Okada + contrib) (10 p.)