Figure 1: s- and p-wave multipoles
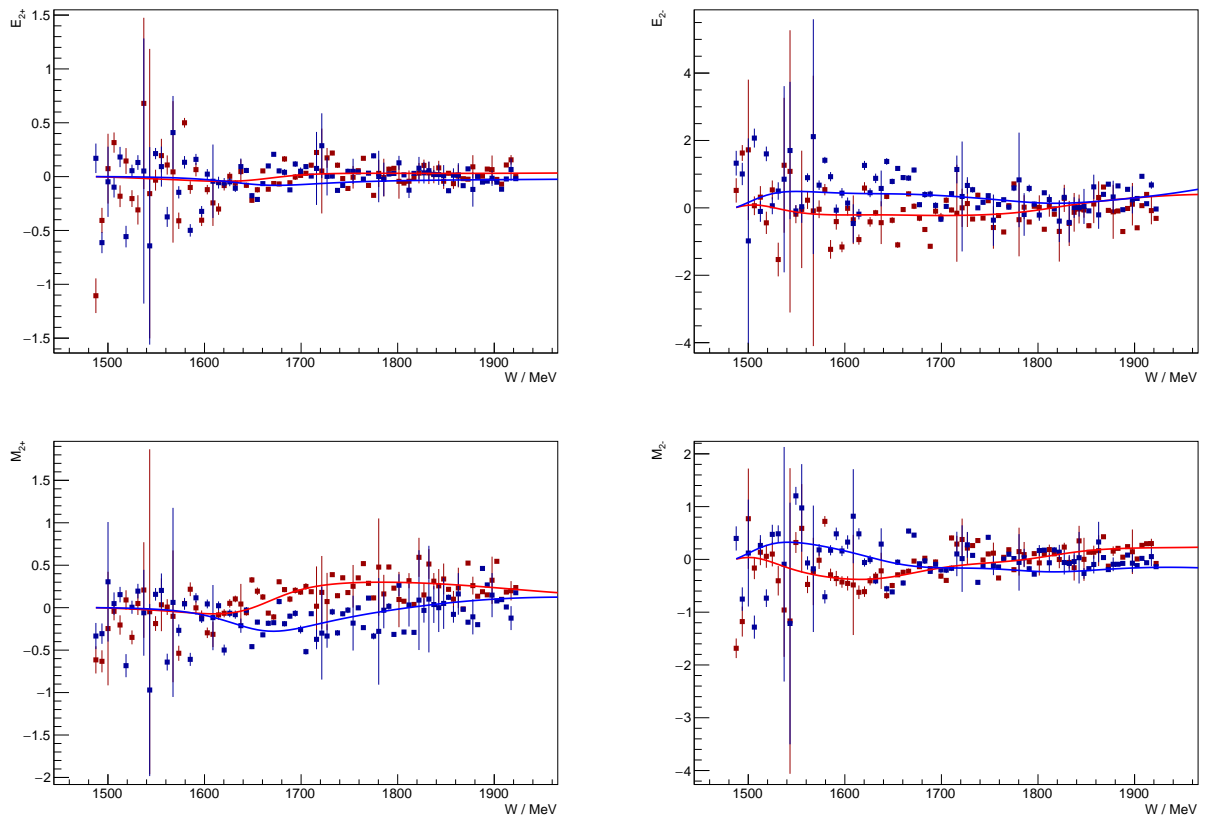
Figure 2: d-wave multipoles
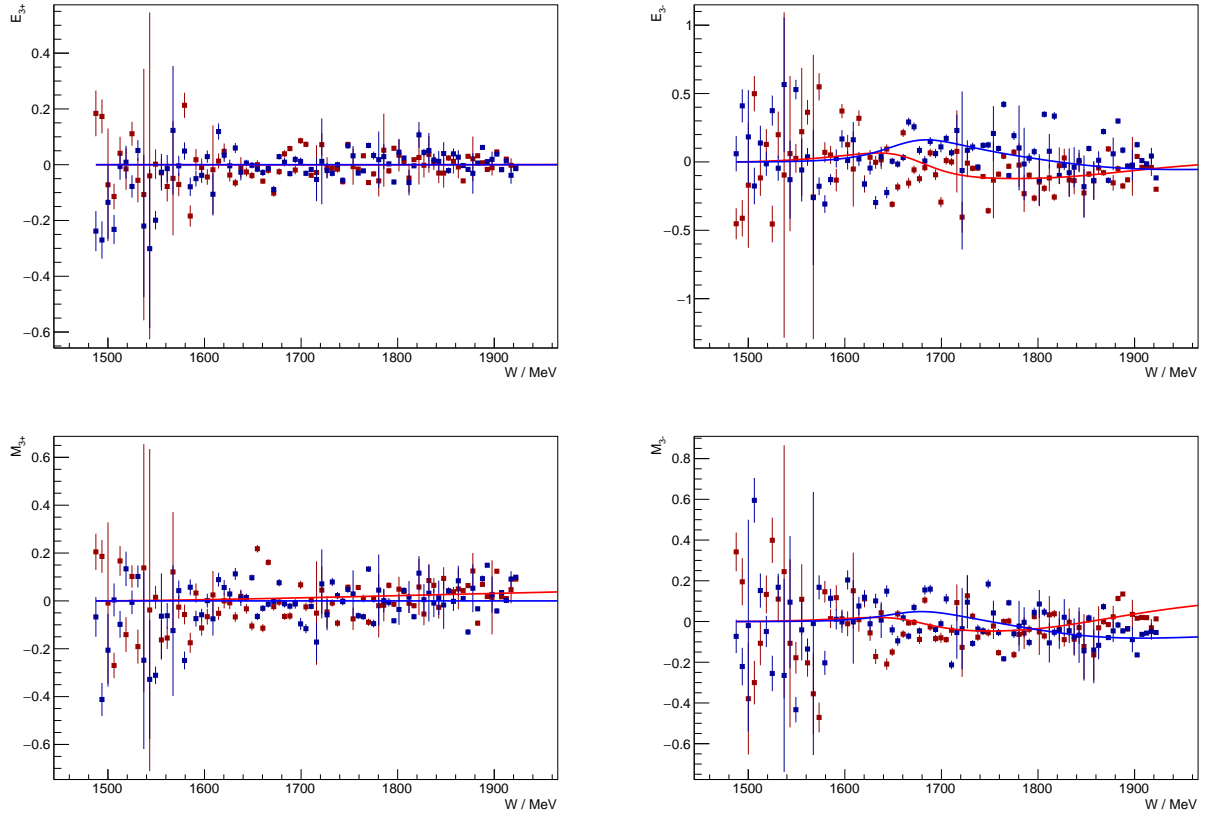
Figure 3: f-wave multipoles

```
L_MAX                 5

#MODEL = 1, BORN = 2, NONRES = 3
D_WAVES               1

FIX_E0P               0
FIX_E1P               0
FIX_M1P               0
FIX_M1M               0

FIX_E2P               0
FIX_E2M               0
FIX_M2P               0
FIX_M2M               0

FIX_E3P               0
FIX_E3M               0
FIX_M3P               0
FIX_M3M               0

FIX_E4P               0
FIX_E4M               0
FIX_M4P               0
FIX_M4M               0

FIX_E5P               0
FIX_E5M               0
FIX_M5P               0
FIX_M5M               0

FIX_E0P_PHASE         0
FIX_E1P_PHASE         0
FIX_M1P_PHASE         0
FIX_M1M_PHASE         0

FIX_E2P_PHASE         0
FIX_E2M_PHASE         0
FIX_M2P_PHASE         0
FIX_M2M_PHASE         0

FIX_E3P_PHASE         0
FIX_E3M_PHASE         0
FIX_M3P_PHASE         0
FIX_M3M_PHASE         0

FIX_E4P_PHASE         0
FIX_E4M_PHASE         0
FIX_M4P_PHASE         0
FIX_M4M_PHASE         0

FIX_E5P_PHASE         0
FIX_E5M_PHASE         0
FIX_M5P_PHASE         0
FIX_M5M_PHASE         0

FIX_SCALES            1
SCALING             0.1

FIX_RE_E0P            0
FIX_IM_E0P            0
ONLY_CROSS_S          0
ONLY_CROSS_F          0
SGT_ENERGIES          0
#Isospin symmetry = 3.43, Isospin breaking = 3.35
BETA              3.43

#CHI2ONLY = 1, CHI2PENALTY = 2, ADAPTIVE = 3
ERROR_MODE            3
```

```
#NONE = 0, MLP1 = 1, MLP2 = 2, MLP3 = 3, CGLN = 4, HELI = 5, INVA = 6, INVB = 7
PENALTY_MODE          5
PENALTY_MLP1        2.0
PENALTY_MLP2        2.0
WEIGHT_Y1           1.0
WEIGHT_Y2           1.0
WEIGHT_Y3           1.0
WEIGHT_Y4           1.0
WEIGHT_Y6           1.0
WEIGHT_Y8           1.0
PRINT_PENALTY         1

MIN_ENERGY        707.8
MAX_ENERGY       1500.0

MASS_MESON      547.8530
MASS_INITIAL    938.2720
MASS_FINAL      938.2720

ITERATIONS            1
SOLUTIONS             1
VARIATION_REL     0.500
VARIATION_ABS     0.000

USE_PRELIMINARY       1

SG0_FILE    data/sg0.txt 1.0    1.0
S_FILE      data/Sigma.dat    1.0    1.0
T_FILE      data/T.dat    1.0    1.0
F_FILE      data/F.dat    1.0    1.0

MODEL_PATH model

#EOF
```