

$$\chi^2 = 2129$$

$$N = 535$$

11.12.2016

$$t_{in}^{1S} = (1.0473 \pm 0.0004) \text{ GeV}^2$$

$$t_{in}^{2S} = (1.0458 \pm 0.0004) \text{ GeV}^2$$

$$t_{in}^{1V} = (2.9875 \pm 0.0015) \text{ GeV}^2$$

$$t_{in}^{2V} = (2.3274 \pm 0.0020) \text{ GeV}^2$$

$$(f_{\omega NN}^{(1)} / f_{\omega}) = 1.5678 \pm 0.0004$$

$$1.5717 \pm 0.0022$$

$$(f_{\phi NN}^{(1)} / f_{\phi}) = -1.1516 \pm 0.0005$$

$$-1.1247 \pm 0.0011$$

$$(f_{\omega' NN}^{(1)} / f_{\omega'}) = 0.1670 \pm 0.0015$$

$$0.0418 \pm 0.0065$$

$$(f_{\phi' NN}^{(1)} / f_{\phi'}) = 0.1441 \pm 0.0004$$

$$0.1879 \pm 0.0010$$

$$(f_{\omega NN}^{(2)} / f_{\omega}) = -0.2478 \pm 0.0006$$

$$-0.2096 \pm 0.0067$$

$$(f_{\phi NN}^{(2)} / f_{\phi}) = 0.3213 \pm 0.0010$$

$$0.2657 \pm 0.0067$$

$$(f_{\phi' NN}^{(2)} / f_{\phi'}) = 0.1572 \pm 0.0005$$

$$0.1781 \pm 0.0029$$

$$(f_{\phi NN}^{(1)} / f_{\rho}) = 0.3985 \pm 0.0007$$

$$0.3747 \pm 0.0022$$

$$Q_{in}^{1S} = 2.2219 \pm 0.0001$$

$$2.2480 \pm 0.0005$$

$$Q_{in}^{2S} = 2.2200 \pm 0.0005$$

$$2.2203 \pm 0.0035$$

$$Q_{in}^{1V} = 6.0915 \pm 0.0016$$

$$6.052 \pm 0.0110$$

$$Q_{in}^{2V} = 5.3560 \pm 0.0024$$

$$5.3767 \pm 0.0178$$

Definition 21.12.2015

$$N = 534 \quad \chi^2 = 2214 \quad a \text{ minus}$$