

Table 16.30 from (1993TI07): Energy levels of  $^{16}\text{F}$  <sup>a</sup>

$E_x$ (MeV $\pm$ keV)	$J^\pi; T$	$\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
0	$0^-; 1$	$40 \pm 20$ <sup>b</sup>	p	1, 2, 3, 4, 5, 6, 7
$0.193 \pm 6$	$1^-$	$< 40$ <sup>b</sup>	p	1, 4, 5, 7
$0.424 \pm 5$	$2^-$	$40 \pm 30$	p	1, 4, 5, 7
$0.721 \pm 4$	$3^-$	$< 15$	p	1, 4, 5, 7
$3.758 \pm 6$	$1^+$	$< 40$	p	1, 4, 5, 7
$3.870 \pm 6$	$2^+$	$< 20$	p	1, 4, 5, 7
$4.372 \pm 6$	$3^+$	$50 \pm 20$	p	1, 4, 5, 7
$4.654 \pm 6$	$1^+$	$60 \pm 20$	p	1, 4, 5, 7
$(4.71 \pm 20)$				7
$4.977 \pm 8$	$(2^+)$	$60 \pm 40$	p	1, 5, 7
$5.272 \pm 8$	$(1^-)$		p	1, 4, 5
$5.404 \pm 10$	4		p	1, 5, 7
$5.449 \pm 14$			p	1
$5.524 \pm 9$	$\pi = +$		p	1, 5, 7
$(5.57 \pm 20)$			p	1
$5.856 \pm 10$	$2^-$		p	1, 4, 5
$(6.05 \pm 20)$				7
$6.224 \pm 14$				1, 4
$6.372 \pm 9$	$4^-$			1, 4, 5
$6.559 \pm 10$	$(3^- + 1^-)$	$\leq 45$	p	4
$6.679 \pm 8$				1, 5, 7
$(6.93 \pm 20)$				7
$7.110 \pm 20$				1
$7.50 \pm 30$	$2^-$	$950 \pm 100$	p	4, 5
$7.90 \pm 15$		$< 100$		1, 4, 5
$9.50 \pm 30$	$1^- (+ 2^-)$	$1050 \pm 100$	p	4, 5
$9.60 \pm 20$		$250 \pm 50$		5
$11.50 \pm 50$	$1^- (+ 2^-)$	$1900 \pm 500$	p	4, 5

<sup>a</sup> See Table 16.24 in (1986AJ04).

<sup>b</sup> (1984ST10) report  $\Gamma_{\text{c.m.}} \approx 25$  and  $\approx 100$  keV for  $^{16}\text{F}^*(0, 0.19)$ .