Meson Spectroscopy

Coupling to $\gamma\gamma$ can probe the quark content of mesons:

$$\Gamma_{\gamma\gamma} \propto Q_q^4$$

Ex. J=2 nonet

	$\Gamma_{\gamma\gamma}$ (rel.)	$\Gamma_{\gamma\gamma}$
$f_2(1270)$ $1/\sqrt{2}$ | uu + dd >	25	2.8 keV
$a_2(1320)$ $1/\sqrt{2}$ | uu - dd >	9	1.0 keV
$f_2'(1525)$ | ss >	2	0.1 keV

For a pure glueball, $\Gamma_{\gamma\gamma} \approx 0$

Glueball Candidates:

$f_0(1550)$

$\xi(2230)$ [$f_J(2220)$]