

35.9 fb<sup>-1</sup> (13 TeV)

**CMS**  
Preliminary

$q^* \rightarrow q\gamma$

Couplings [ $f = f_s = f'$ ]

1  
0.9  
0.8  
0.7  
0.6  
0.5  
0.4  
0.3  
0.2  
0.1  
0

1

2


3

4

5

6

Resonance Mass [TeV]

- Expected excluded  $q^*$  region
-  Observed excluded  $q^*$  region