

^{40}K transition diagram

$5P^{3/2}$
 24720.139
 5/2
 7/2
 9/2
 11/2

$5P^{1/2}$
 24701.382
 7/2
 9/2

$3D^{3/2}$
 21536.988
 5/2
 11/2

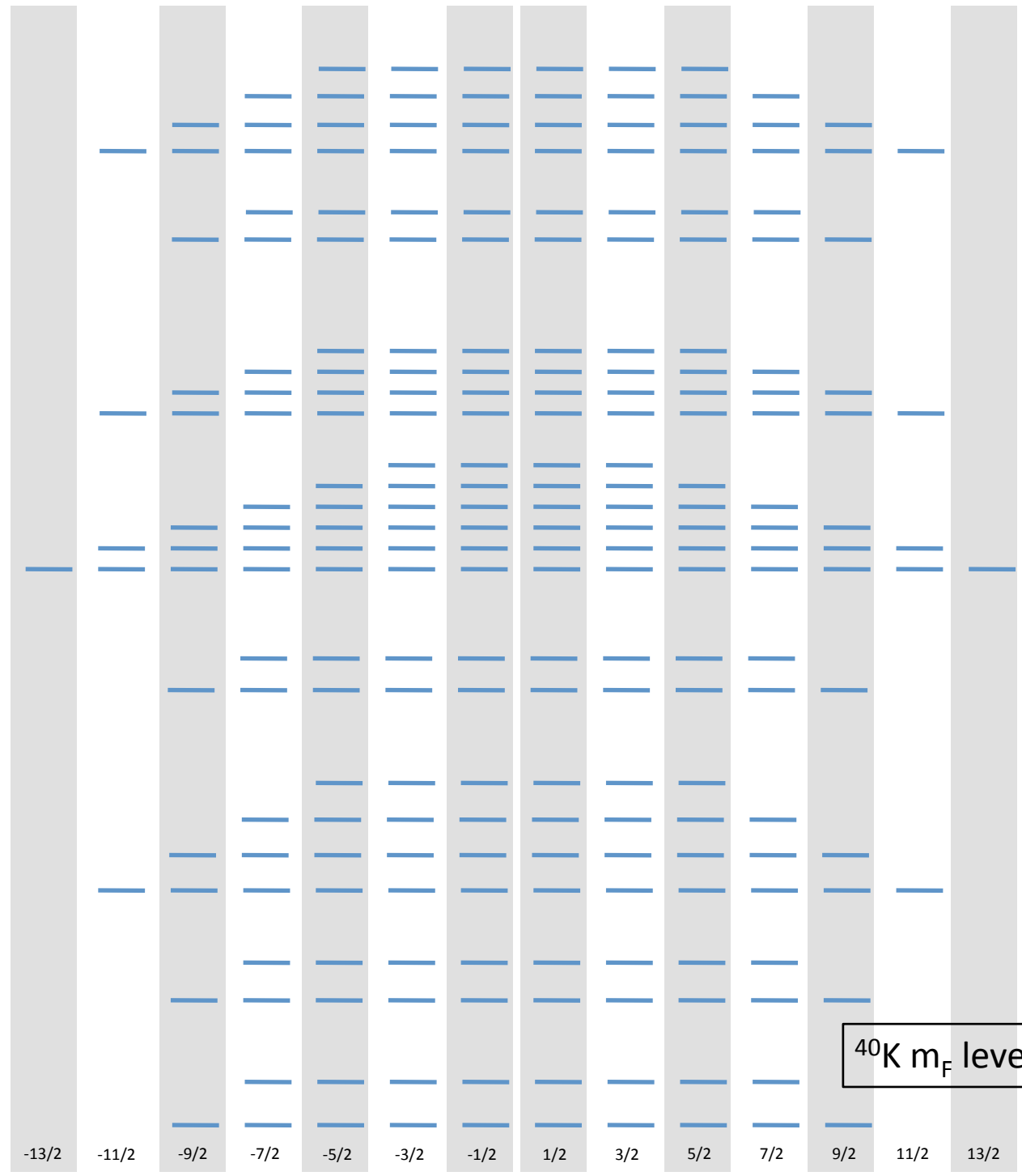
$3D^{5/2}$
 21534.680
 3/2
 13/2

$5S^{1/2}$
 21026.551
 7/2
 9/2

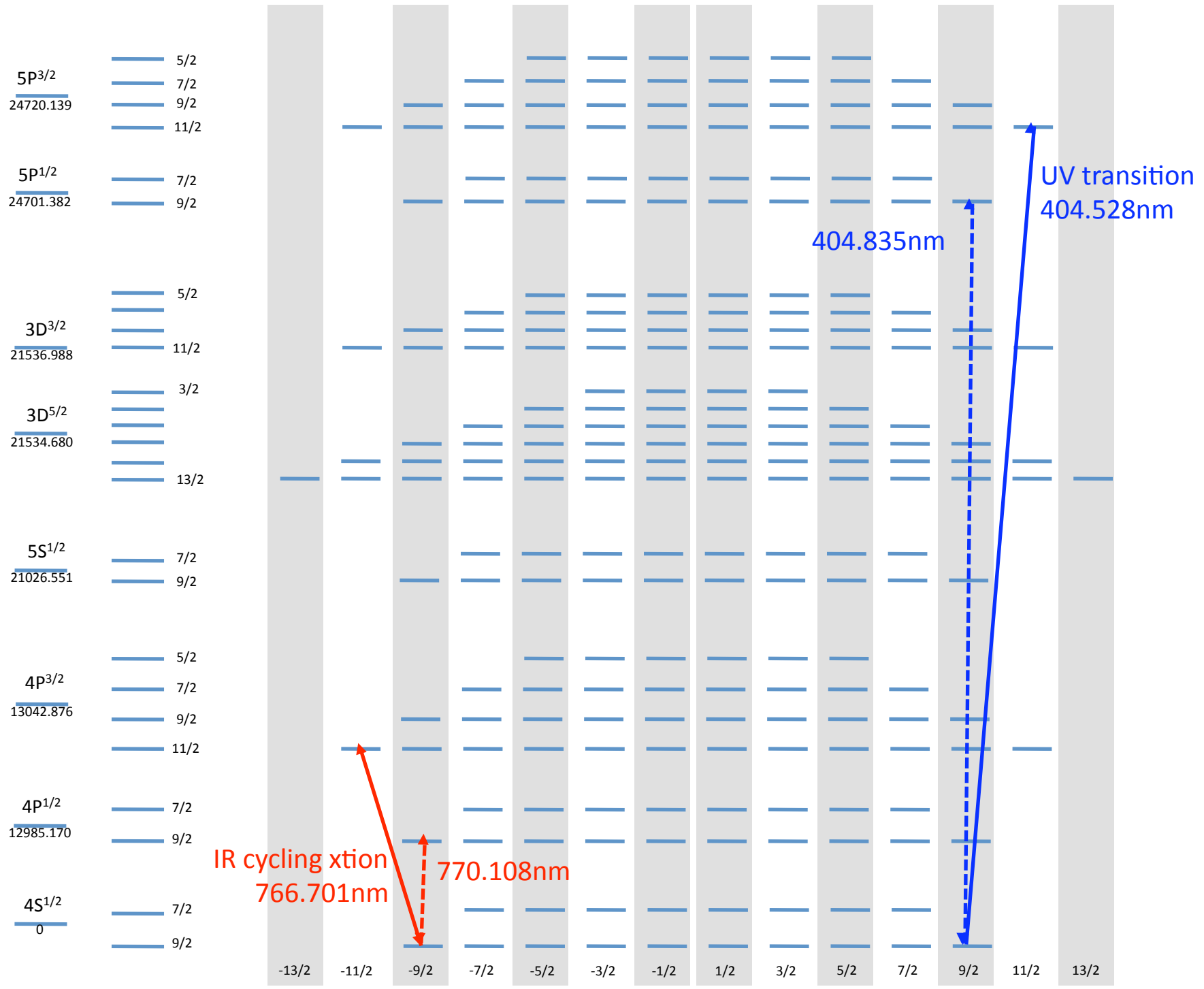
$4P^{3/2}$
 13042.876
 5/2
 7/2
 9/2
 11/2

$4P^{1/2}$
 12985.170
 7/2
 9/2

$4S^{1/2}$
 0
 7/2
 9/2



^{40}K m_F level diagram



$5P^{3/2}$ 24720.139
 5/2
 7/2
 9/2
 11/2

 $5P^{1/2}$ 24701.382
 7/2
 9/2

 $3D^{3/2}$ 21536.988
 5/2
 11/2

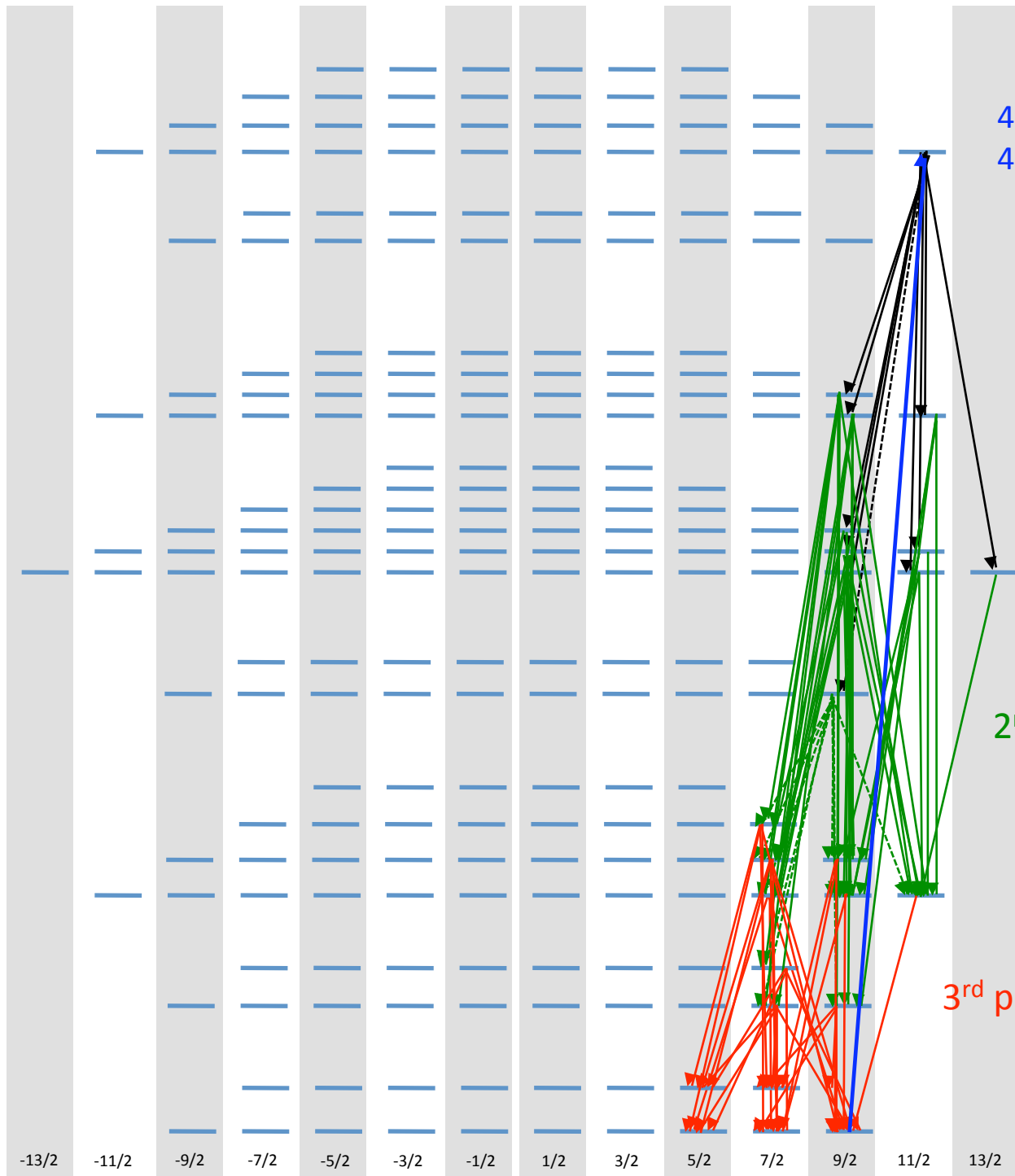
 $3D^{5/2}$ 21534.680
 3/2
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 $5S^{1/2}$ 21026.551
 7/2
 9/2

 $4P^{3/2}$ 13042.876
 5/2
 7/2
 9/2
 11/2

 $4P^{1/2}$ 12985.170
 7/2
 9/2

 $4S^{1/2}$ 0
 7/2
 9/2



$4S-5P^{3/2}$
 404.528nm

1st photon

2nd photon

3rd photon

