下列各组量子数中，合理的一组是( )

A *n*=3，*l*=1，*m*1 =+1，*m*s=+1/2 B *n*=4，*l*=5，*m*1 =-1，*m*s= +1/2

C *n*=3，*l*=3，*m*1 =+1，*m*s=-1/2 D *n*=4，*l*=2，*m*1 =+3，*m*s= -1/2