Treatment of firm L-transfer assignments based on poor DWBA fit

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@ZOOM, BNL

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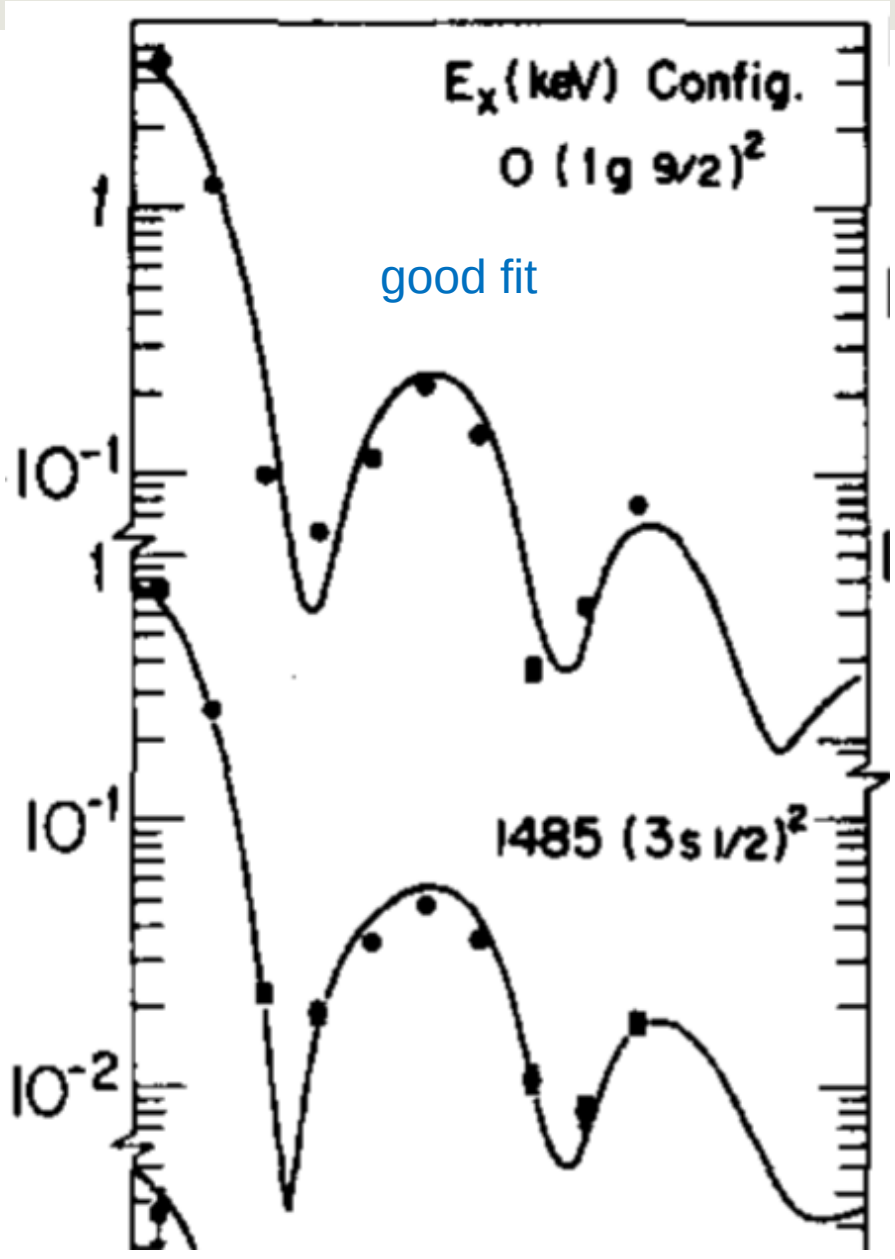
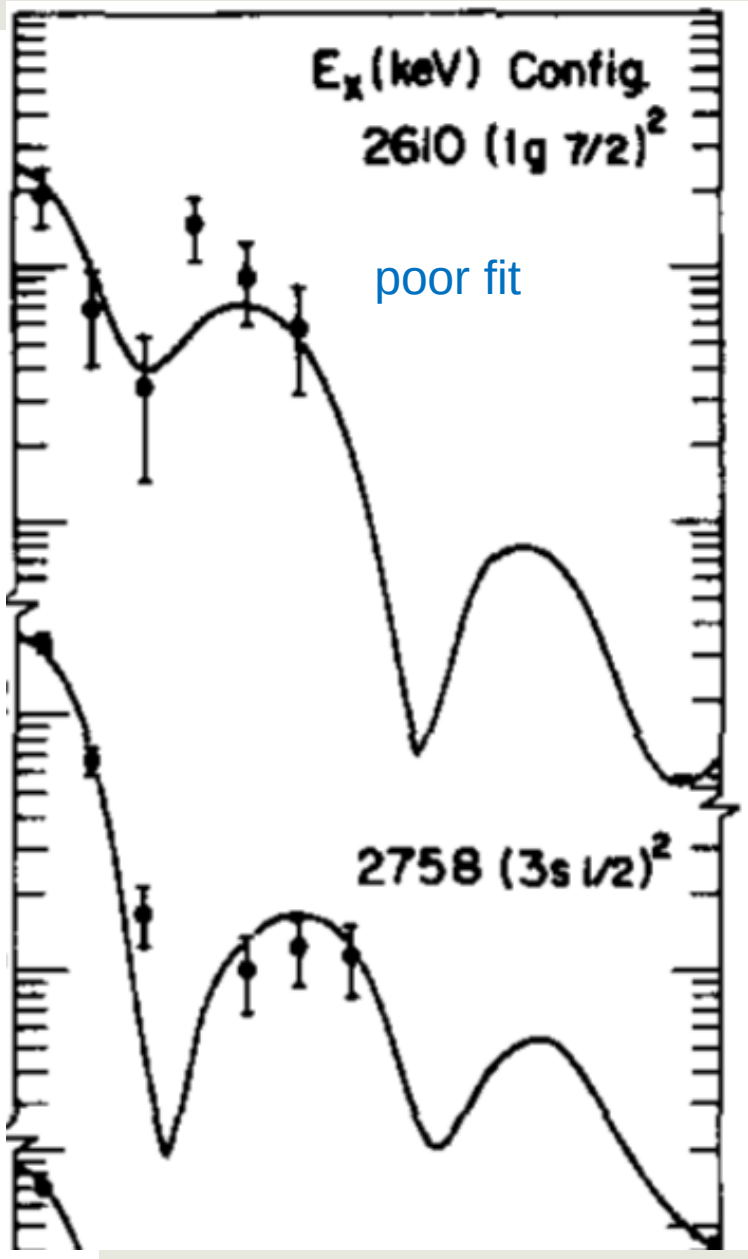
Example firm assignments: good and bad?



L-transfers in both fits (left&right) are given as firm assignments by authors in the same paper

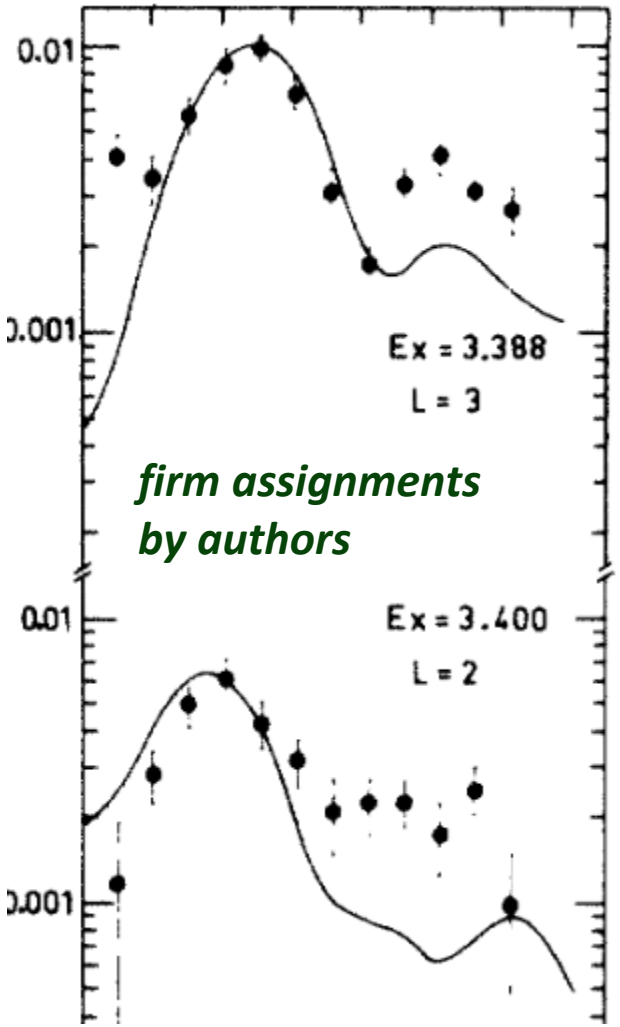
Do we blindly take the firm assignments claimed by authors from apparent poor-fits?

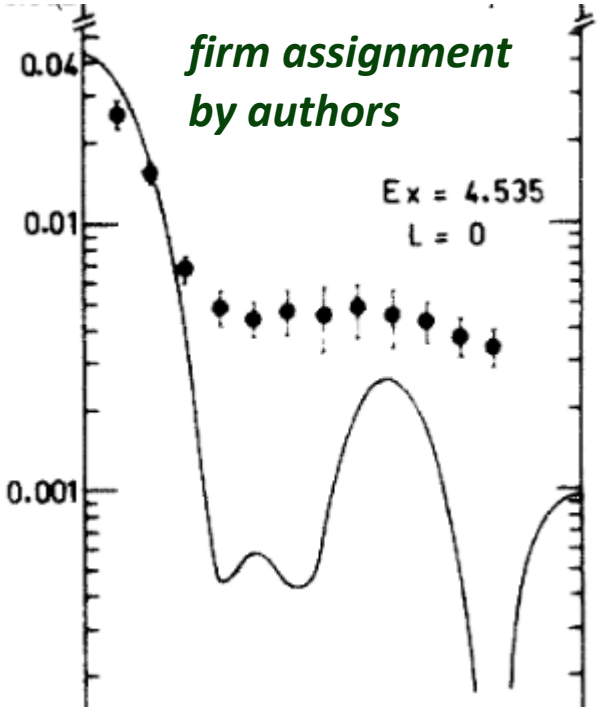
I put the firm L from right in “( )”



1978LA12

More examples



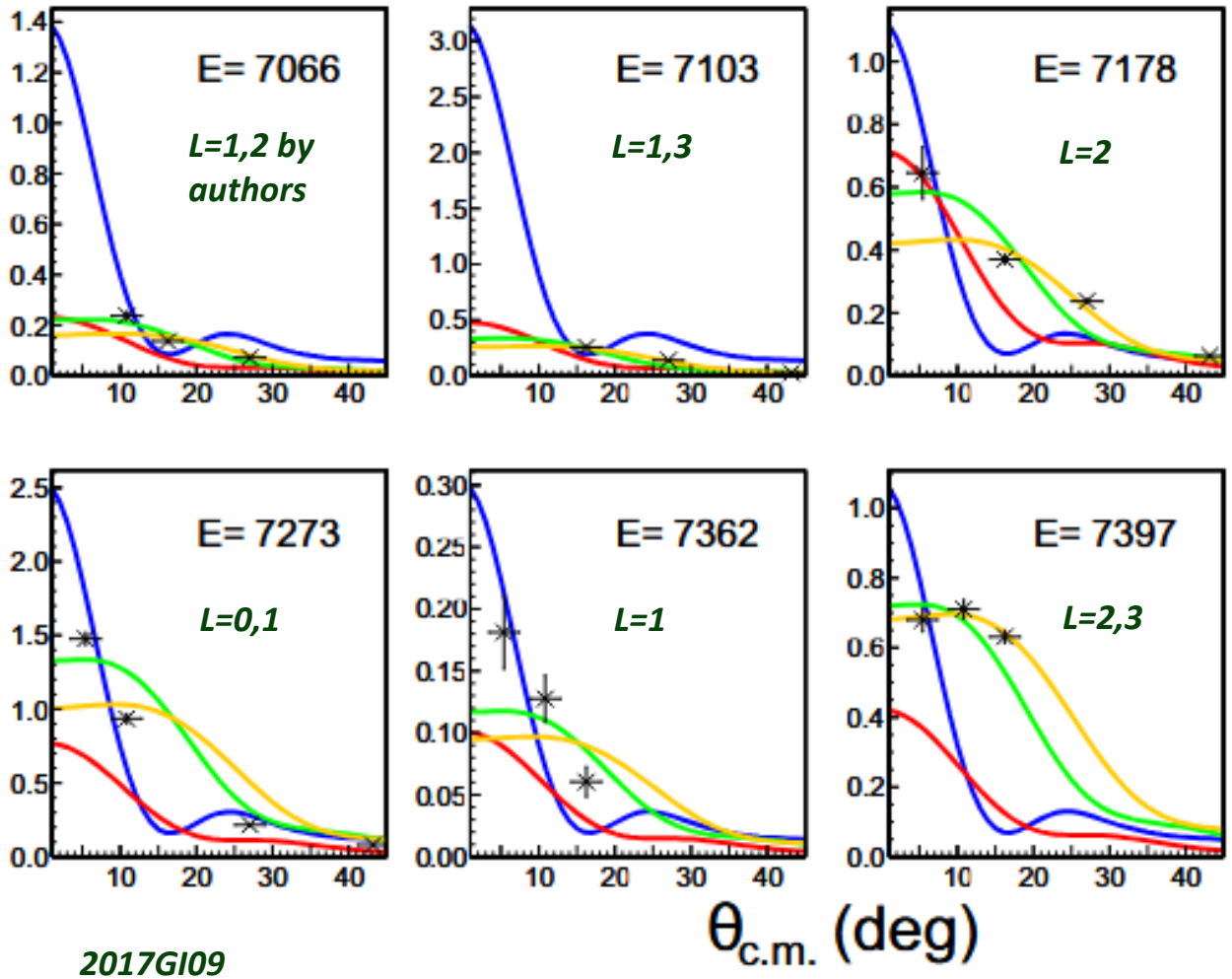


1977GU12

Should these L-transfers be adopted as firm as claimed by authors?

I put all such firm L-transfers in “( )”

More examples



2017GI09

Blue: L=0
Red: L=1
Green: L=2
Yellow: L=3

Should these L-transfers be adopted as firm as claimed by authors?

I put all L-transfers from this paper in “( )”

How to identify a poor fit for L-transfer?

Should we make an evaluation standard for identifying a poor fit for L-transfer, assigned as firm?

For example,

- ❑ Apparent deviations from expected curve or shape)
- ❑ Too few data points to obtain a reliable fit
- ❑ Too narrow angular range to obtain a reliable fit
- ❑ Shape not clearly distinguished from shapes of other L-assignments

Any suggestions?

Most poor fits can be easily identified by visual inspection