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Subject: Find shift between 2 star lists

Posted by [Noah Johnson](#) on Mon, 06 Dec 2010 22:16:18 GMT

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Hello,

I am new to IDL and I have the following task to complete and I cannot find an acceptable way to do it.

I have 2 star lists of approximately the same field of stars. One list has about 100 stars and their locations (RA and DECLINATION) and the other list has about 10,000 stars and their location. The difference is that the second list is from observations that are much deeper than the first list. Both lists have different kind of information and the only common is the RA and DEC. I am trying to match the stars of the first list to the stars of the second list. I used `match_2d` but the problem is that some of the matches might not be correct. The reason is that the closest star might not be the same star because the second list is a much deeper observation so many stars are very close to each other. I was thinking that I should first find the shift between the 2 lists and but I do not know if there is a way to do that or a program that can find the shift between 2 star lists of the same region.

I would appreciate any help on this matter.

Noah

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