



The

Bremen 2022 AG Puzzler

Hint 1

The natural protocol solve the problem is TAP, and TOPCAT is a friendly tool to operate TAP.

You will find Gaia DR3 on many TAP services – just ask for it in TOPCAT’s TAP window and use your common sense.

Puzzler hints with brief demos at every coffee break Tuesday and Wednesday.



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Hint 2

When you have found `gaia_source` (or perhaps `gaia.dr3lite` if you prefer), use TOPCAT's table browser to look for the columns containing the BP and RP magnitudes.

Have a look at the ADQL examples TOPCAT gives you.

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Hint 3

Do *not* download all the rows, magnitudes, etc, in your “cone” (i.e., the 0.25 degree environments of the central positions). Instead, make the database compute averages.

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Hint 4

To compute averages over many rows on the server side, what you want is the *aggregate function* AVG.

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