

Win our great 70 cm × 140 cm **towel** with a beautiful astronomical image on it.

At our booth, you'll find a computer with all recommended software installed that you can use to **solve** the puzzler. We're also there with helpful advice.

We will further give hints with brief demos during every coffee break Tuesday and Wednesday at our booth.

The 2017 AG Puzzler

Our Galaxy is rotating. You don't have to take our word for it – ask Gaia. If you average the proper motions in the TGAS catalog over areas of 5 to 10 degrees in linear size and plot the arrows, you'll see a very distinctive pattern.

Since the Sun is on a largely circular orbit around the centre of the Galaxy, it should move perpendicular to the connecting line to the Galaxy's center. Hence, you'd expect that the "source" of the pattern (which is where we're moving) to be on the Galactic equator at Galactic longitude 90 degrees. Where do you see it (give both equatorial and Galactic coordinates)? Can you guess why it's not where our little argument suggests it should be?

Hand in your solutions on a piece of paper at the GAVO booth; please give a means to reach you if you can't make it to the prize drawing. The **winner** will be drawn at random from the roughly correct solutions during the afternoon coffee break on Thursday (come to our booth). An **archive** of previous puzzlers and their solutions is at <http://www.g-vo.org/puzzlerweb>. This is also where you'll find proposed solutions to this puzzler after the prize drawing.