The

AVO VIRTUAL OBSERVATORY AG 2019 PUZZIEI

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Do you know where there's the highest concentration of nebulae on the Sky? More precisely, of NGC objects? Guess for a second. Then figure it out using the VO:

GERMAN ASTROPHYSICAL

What HEALpix of level 3 holds the largest number of NGC objects? What HEALPix at level 4? And what are the RA and Dec of their centers?

Bonus: You get an extra ticket in the raffle if you tell us both what constellation your points are in and what sky reference system is used in the Aitoff-projected figures on this flyer.

Win our great 70 cm \times 140 cm towel with a beautiful astronomical image on it. There is a computer at our booth you can use to **solve** the puzzler with all recommended software installed.

At our booth, about 15 minutes into the coffee breaks on Tuesday and Wednesday, we will give a hint – every time a new one. Plus, of course, we're always there to help with VO problems of all kinds.

Hand in your solutions at the GAVO booth. Solutions on Tuesday get three tickets for the raffle, on Wednesday, you get two, on Thursday, one. Get a bonus ticket if you tell us what constellation your points are in. The **winner** will be drawn at our booth during the Thursday afternoon coffee break. A PDF with a **solution** will be posted at http://docs.g-vo.org/2019-ag-solution.pdf some time around then. An **archive** of previous puzzlers and their solutions is at http://www.g-vo.org/puzzlerweb.