The GAVO 2016 AG Puzzler

How many stars could you see in the summer triangle at night?

GERMAN ASTROPHYSICAL

GAVO

VIRTUAL OBSERVATORY

Task

If you currently step out at night and the sky's clear, even through the bright lights of Bochum you can see the majestic summer triangle, consisting of Deneb, Altair, and Vega.

Now - how many stars could you see within the triangle if you were out at a moderately dark place? Put more precisely: How many stars brighter than 5th magnitude (taken not too far away from the V band) are within the spherical triangle defined by the three stars of the summer triangle?

Participation

Hand in your solutions 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 all roughly correct and/or creative solutions during our tutorial block on Thursday. A PDF with a solution will be posted at http://docs.g-vo.org/2016-ag-solution.pdf some time around then. And, oh: In SIMBAD's TAP service, you'll find Deneb as "* alfCyg" ...

Prize

Win our great 70 x 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, we will give one public hint each on Tuesday and Wednesday afternoon - plus, of course, we always help with VO problems.