Subject: finding star-like objects in images
Posted by Helder on Wed, 08 Nov 2017 10:12:04 GMT
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Hi,
I'm not an astronomer and I guess that this is something that astronomers have been confronted with quite often in their lives.
I have a detector where particle events generate intensity across some pixels (2-5 x 2-5) [*].
Typically their integral intensity is constant (lets say 100 +/- 20). These events show over a noisy bkg.
Apart from having a constant intensity, these events are similar to stars (that have a varying luminosity).

What approaches are typically used for detecting/locating such events?

Any IDL solution readily available out there?

Thanks for reading so far and for any suggestions.

Regards,
Helder

[*] - threshold methods would not work very well, because the total intensity of 100 may be distributed over 2x2 pixels (~25 per pixel) or 5x5 (~10 per pixel).