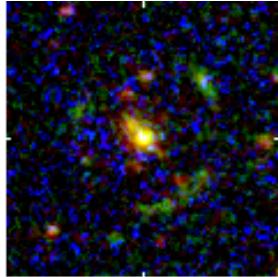
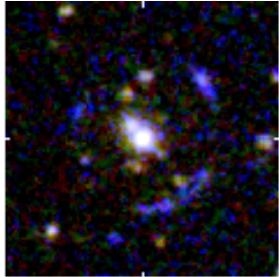


CASSOWARY Strong Lenses in DES Footprint

David Finley January 11 2013

The information on the next page shows there are two strong lenses listed in the CASSOWARY catalogue (CSWA 22 and CSWA 34) in the DES footprint. Both are in the DES sub-footprint "Round 82", and none are in the SN fields. In the CASSOWARY pictures shown here gri is on the left, and ugr on the right.



CSWA 22 a.k.a. Hall's Arc

ObjId 587727230523080836

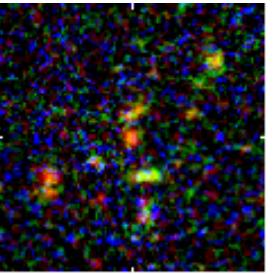
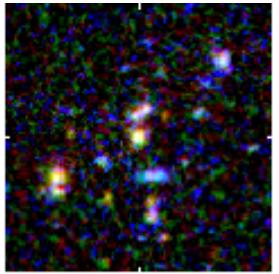
RADec 26.73337065 -9.49791496

ugriz L 21.6 20.3 18.5 17.8 17.6

ugriz S 21.0 20.4 19.9 19.2 19.5

SpecObj 187123470625144832

Z_L 0.44¹¹ Z_S 1.944¹⁸



CSWA 34

ObjId 587727226228834771

RADec 4.25642966 -10.15308799

ugriz L 24.9 22.5 20.6 19.7 19.3

ugriz S 22.0 21.1 20.5 20.1 20.1

No SDSS spectrum

Z_L 0.5¹ Z_S ?

Phil Marshall provided this link to the CASSOWARY catalogue of strong lenses on January 2 2013:

<http://www.ast.cam.ac.uk/ioa/research/cassowary/> .

Table 7 in des docdb 6292-v4 (30 Apr 2012, 07:18) by Jim Annis "The DES Footprint: the change from v11 to Round82" lists the four sub-footprints which comprise the wide area survey:

Table 7. Round82

	RA	Dec
SPT	-60 $\leq \alpha \leq$ 105	-65 $\leq \delta \leq$ -40
Viking	-30 $\leq \alpha \leq$ 60	-40 $\leq \delta \leq$ -25
Round 82	-3 $\leq \alpha \leq$ 45	-25 $\leq \delta \leq$ 3
Stripe 82 ¹	-43 $\leq \alpha \leq$ -3	-1 $\leq \delta \leq$ 1

The table in des docdb 6231-v3 (20 Nov 2012, 11:55) by Chris D'Andrea and Ravi Gupta lists the positions of the 10 DES SN fields.

Field Name	RA	DEC
E1	7.8744 (00:31:29.9)	-43.0096 (-43:00:34.6)
E2	9.5000 (00:38:00.0)	-43.9980 (-43:59:52.8)
S1	42.8200 (02:51:16.8)	0.0000 (00:00:00.0)
S2	41.1944 (02:44:46.7)	-0.9884 (-00:59:18.2)
C1	54.2743 (03:37:05.8)	-27.1116 (-27:06:41.8)
C2	54.2743 (03:37:05.8)	-29.0884 (-29:05:18.2)
C3	52.6484 (03:30:35.6)	-28.1000 (-28:06:00.0)
X1	34.4757 (02:17:54.2)	-4.9295 (-04:55:46.2)
X2	35.6645 (02:22:39.5)	-6.4121 (-06:24:43.6)
X3	36.4500 (02:25:48.0)	-4.6000 (-04:36:00.0)

The End.