SEARCH FOR "UFO"s

E. Nebot for the BLM team

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Scan in logging database for UFO-like events. All fills with stable beams from 31/07 until 27/10 included in the analysis.





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INTENSITY DEPENDENCE



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SECTOR 3-4

(V. Baglin Chamonix 2009)

			DO VA	DOMO	3152	CIBBI. A2011S	A2073	UK	soot	2103	QBBI.A33R3	A33831	MLI	ok	270	QBBI.B23L4	C23L4	MLI	0
mag.d	Inter. number	Element	BS VI	BS V2	1130	QBBI.B20R3	B20R3	ok	5001	2192	QBBI.B33R3		MLI	ok	1643	QBBI.A23L4	B23L4	MLI	ok
			NI I	I WI	2054	QBQI.20R3	C20R3	ok	soot	2108	QBQI.33R3		MLI	ok	1250	QBQI.23L4	A23L4	MLI	MLI
C	QOBI 7r3	07B3	MLI	ML	0195	QQBI.20R3		ok	soot	0227	6601.33113	01/	ML	- i	0209	QQBI.22L4	Q22L4	MLI	MLI
	OBBL 8B3	48B3	ML		2035	QBBLA21R3		ok	soot	2177	QBBI.A34R3	' OK	MLI	MLI	2105	QBBI.B22L4	C22L4	MLI	ok
3077	OBOL 8B3	B8B3	DUST	MLL	1092	QBBI.B21R3		ok	soot	1100	QBBI.B34R3	B34F3	ok	ok	2087	QBBI.A22L4	B22L4	MLI	MLI
0011	DORI 883	Adeta	MLI	MLL	1099	QBQI.21R3		ok	soot	1246	GROUP OADO	03403		UK	1165	QBQI.221.4	42214	MLI	MLI
2107	DBBI 9B3		DUST	1. Charl	0225	QQBI.21R3	02193	ok	soot	0202	QQBI.34L4	Q34R3	ok	ok	000	UQBI.21L4	Q21L4	MLI	
2176		BOB3	ML	MLL	1085	QBBI 622B3	A TORRE	ok	soot	2121	QBBI.B34L4	U34L4	ök	ok	3399	QBBI.B21L4	C21L4	MLI	MLI
2110		0983	DUST	THE	200	QBBI.B22R3	E2.1FD	ok		1100	GDDI.AJ4L4	DJ4L4	UN	UI	3135	QBBI.A21L4	B21L4	MLI	MLI
2073	ORRI 10R3	A10B3	MI	ok	10/1	UBUI.22H3	1.22/13	soot	soot	0000	GBGL34L4	A34L4	MLI kali	OT A JE L	1080	QBQI.21L4	A21L4	MLI	ML
2175		Diopo	DUCT	ok	UZOC	IJUBI.22H3	142,353	soot	3000	0220	GGDI 0001 4	C22L4	MLI.	IVILI	0214	Cicion Contra	COOL 4	UK	MLI
-		01083	DUST	ak	1236	UBBLAZ3H3	ALC STAT	soot	soot	1100		D00L4	NAL I	UK	3089	UBBI.B20L4	L2UL4	MLI	MLI
2172		A11P2	MLL	ok	2193	UBBI.BZ3H3	COODO	1002	Joos	1103		A33L4	hdi i	UK.	1070	UBBI.AZUL4	BZUL4	MLI	MLI
1100	ODEL 11D2	D11D0	DUCT	ok	1103		C23H3	soot	hole	0207	0081.3324	0321.4	kal I	N/L L	0004		A20L4	MLI	IVILI Ivil 1
0001	OEOL HOS	01100	DUST	ok	1241	DDDL 424	Lacaria	soot	soot	2084	0881 8321 4	C32L4	ML	ok	0234			UK I	IMLI Kali I
0001	OODI 11D2	01100	DUST	DUCT	2055		DIDACO	- coot	Suot	3080	ORRI 6321.4	B32L4	MII	ok	21/4		D19L4	MLI I	IYILI Mili
2000	CIEDEL A 12122		DUR	DUST	200		C24B2	soot		1146	OBCI 321 4	A321.4	MI	nk	2079		A191 /	ML I	NAL I
2032		D12D2	DUDT	DUCT	0199	DOBI 2483	024113	soot	soot	0191	QOBI.31L4	Q31L4	MLI	MLI	0211	DOBI 181 4	0181.4	ok	MI
0170		01200	UK	DUST	1132	OBBL &25B3		soot	soot	1081	GBBI.B31L4	C31L4	MLI	ok	2045	ORRI R181 4	C181 4	MIL	ML
21/3		01203	OK	OK	1994	GBBI B25B3	ELOS TO	soot	soc	2106	QBBI.A31L4	B31L4	MLI	MLI	1069	ORRI A18I 4	B18L 4	MI	ML
0136		<u>412D2</u>	OK	DUCT	3095	OBOL 25R3		soot	soot	1249	QBQI.31L4	A31L4	MLI	MLI	2181	OBOL 18L4	A18L4	ok	MLI
3000	GDDL D12D2	A ISHS	DUST	DUST	0219	QUBL Zaria		soot	soot	0210	QQBI.30L4	Q30L4	MLI	MLI	0216	QQBI.17L4	Q17L4	ok	MLI
1103		BIJBJ C10D0	OK	DUST	1242	QBBI.A26R3	A2683	soot	soot	1111	QBBI.B30L4	C30L4	MLI	ok	2169	QBBI.B17L4	C17L4	MLI	MLI
2089			DUST	DUST	2111	QBBI.B26R3		soot	soot	1065	QBBI.A30L4	B30L4	MLI	MLI	2110	QBBI.A17L4	B17L4	MLI	MLI
1000	GODU A14D2	UIJH3	0051	DUST	2100	QBQI.26R3		soot	soot	2067	QBQI.30L4	A30L4	MLI	MLI	3158	QBQI.17L4	A17L4	MLI	MLI
1093	UBBI.A 14H3		OK	DUCT	0208	QQBI.26R3		soot	soot	0222	QQBI.29L4	Q29L4	ML	MLI	0193	QQB1.16L4	N/HI	MLI	MLI
1124	GBBLB14H3	UK	DUST	DUCT	2043	QBBI.A27R3	A27FI3	soot	soot	1087	QBBI.B29L4	C29L4	MLI	MLI	2107	QBBI.B16L4	IVILI	MLI	MLI
3401		014F03	DUST	DUST	1089	QBBI.B27R3	B27P3	soot	soot	1239	UBBI.A29L4	A TT	MLI	MLI	2097	QBBI.A16L4	B16L4	MLI	MLI
0213		Q14H3	OK	DUST	1235	QBQI.27R3	C27FI3	soot	soot	3142	UBUL29L4	IVILI	MLI	MLI	1237	QBQ1.16L.4	A16L4	MLI	MLI
1004	GDDL DICD2	A IOH3	MLI	DUST	0230	LUBI.27H3	U2/H3	soot	soot	0200		Q28L4	I∀ILI k.4L1	I∀IL.I ►dL I	0235			MI	MLI
1064	GDOL 15P2	BIDH3	OK	DUST	1088	0000L02003	A28113	300	soot	2104		D20L4	NAL I	I IVILI Nd⊡	2000	QBBI.B15L4	C15L4	MLI	
2058	QBUI. 1983	CIDH3	OK	DUST	3100	UBBI.B28H3	ESZEPHS	soot		3000	GDD1. AZ.0L.4	A 29L 4	MLI MI I	NAL I	2053	UBBLA15L4	B15L4	MLI	MLI
0229	LILE 603	A IODO	ak	DUST	0103	UBUI.28H3	1.26195	JOOS	soot	0232	00812714	M20L4	ML	TYILL MI	3396	UBUI. 15L4	A15L4	MLI	MLI
2096	UBBLAI6H3	A IbH3	OK	DUST	1112		A 20022	soot	soor	3400	DBBI B27LA	C27L4	MLT	ML	0194	GDDLD14L4		MLI	MLI
2185	UBBI.BIbH3	BI6H3	OK	OK	1112	CEDI.AZ303	M23013	soot	5000	2070	0881 A271 4	B27L4	ok	MLI	2133			MLI MLI	MLI NdLI
6160	CIBLI IBB3	L IbH3	OK	Terese and	2040		00000	soot	- tooot	2208	OBOI 271.4	A271.4	ok	MLI	1013			hdLl	
0215	UUBI. IBR3	Q16H3	ok	OK	0221	GUDGI.2010	02902	SUUL	soot	0201	CC11.201.4	UZ6L4	E Villant	MLI	0224	COLUCIT PILA	A14L4	MI	ML
3155	QBBLA1/H3	A1/H3	ok	DUST	1154	QBBI A30B3	ABORR	soot	MLI	2078	QBBI.B26L4	C26L4	MLI	MLI	3101	OBBI B131 A	C13L4	ML	ML
1181	QBBI.BT/H3	BI/R3	ok	DUST	3409	QBBI.B30R3	BBORG	MLI	MLI	3402	QBBI.A26L4	B26L4	MLI	MLI	2113	OBBLA13L4	B13L 4	ML	MLI
1113	UBUI.17H3	C1/H3	ok	DUST	1083	QBQI.30R3	C30R3	soot	ok	2119	QBQI.26L4	A26L4	MLI	MLI	2120	QBQI.13L4	A13L4	MLI	MLI
0218	UUBLI/H3	U1/H3	ok	DUST	0204	QQBI.30R3	Q3083	ok	ok	UZZO	OOBI 25L4	Q25L4	ML	ML	0212	QQBI.12L4	Q12L4	MLI	MLI
2080	QBBI.A18H3	A18H3	ok	DUST	3636	QBBI.A31R3		soot	MLI	1245	QBB1.B25L4	C25L4	MLI	MLI	1127	QBBI.B12L4	C12L4	MLI	MLI
1147	LIBBI.B18H3	B18H3	ok	DUST	1072	QBBI.B31R3		soot	soot	2090	QBBI.A25L4	B25L4	MLI	MLI	1076	QBBI.A12L4	B12L4	MLI	MLI
2083	QBQI.18R3	C18R3	ok	DUST	1231	QBQI.31R3		MLI	ML	3104	QBQI.25L4	A25L4	MLI	MLI	1232	DPDI 12L4	1401 4 MILLI	kat 1	MLI
0197	QQBI.18R3	Q18R3	ok	DUS	0192	QQDI.21P3	0.000	locol	soot	0206	GQBI.24L4	Q24L4	ok	MLI		QQE1.11L4	Q11L4	MLI	MLI
31.5	LIBBI A1983	V10B3	ok.	DOST	2102	UBBI.A32H3		MLI	DUSI	1131	QBBI.B24L4	C24L4	MLI	ok 6	0001	QEBI.11L4	C11L4	MLI	MLI
1091	QBBI.BI9P3		OK	soot	2194	QBBI.B32R3	' OK	ok	DUST	2125	QBBLA24L4	B24L4	MLI	ok	3114	QBBI_111.4	-B114	ix Alha	MLI
3099	QBQI.19F5	JUS	ok	soot	2171	QBQI.32R3		ok	DUST	000	UBUI.24L4	AZ4L4	MLI	OK	1000	OBCI."ALX	ATTLA	MLPS	Mar
	QQBI.19R3	1 Q19R3	ok	soot	0200	UQBI.32R3		ok	ok.	0231	QUUI.ZULY	Q2JE4	IMILI	IML	OBSL	QOBI. TULA	304	ML	MET

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HOT/COLD SPOTS

Histogram => 100m/bin

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HOT/COLD SPOTS

→ SECTOR 1-2: 9 candidates (5 R1 and 4 L2, 1 of them around injection region).

- → SECTOR 2-3: 9 candidates (4R2 and 5L3)
- → SECTOR 3-4: 17 candidates (11 R3 and 6 L4)
- → SECTOR 4-5: 12 candidates (2 R4 and 10 L5)
- → SECTOR 5-6: 8 candidates (7 R5, 4 of them simultaneous with RP mov, and 1 L6)
- → SECTOR 6-7: 7 candidates (4 R6 and 3 L7)
- → SECTOR 7-8: 20 candidates (13 R7 and 7 L8). 4 Candidates in cell 31R7 => BEAM 1
- SECTOR 8-1: 29 candidates (18 R8, 6 of them around injection region, and 11 L1). Candidates in cells 26L1, 27L1, 28L1, 30L1, 2X 32L1 => BEAM
 2

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FIRST LOOK AT NON STABLE BEAM

No sign of UFOs at 450 GeV.

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FIRST LOOK AT NON STABLE BEAM

→ Only 3 candidates. All in fil1462 (All three during flat top. 01/11 from 13:35 to 14:46)

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CONCLUSIONS

After ~380 hours of stable beam:

- The "UFO"-like even rate clearly increases with intensity. Not very many of these events were close to dump the beam.
- → The BLM signals increase with intensity (?)
- → The duration of the losses decrease with intensity.

Clear hot/cold spots around the ring

No sign of UFOs at injection. 3 candidates at flat top (fill 1462)

CMS UFO

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CMS UFO

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