

Beryllium (Boron) Clustering Quest in Relativistic Multifragmentation

BECQUEREL PROJECT

- ✓ *The emulsion stack in Bucharest consists of 6 plates, which are: 3-7 and 9.*
- ✓ *Scanning was made as following:*

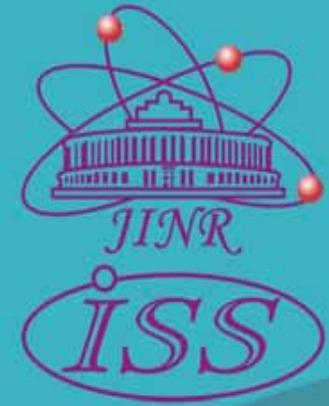
➤ Plate 3 and Plate 4

- ☐ *We are still working on this plates.*

➤ Plate 5 and Plate 6

- ☐ *The scan is complete.*

- *On plate no. 7 scanning was interrupted because the plate was a little a bit damaged (electric power down).*
- *On plate no. 9 scanning was interrupted because this is the last plate in Bucharest package and we cannot trace relativistic tracks from plates 10 and 11.*



Beryllium (Boron)

Clustering

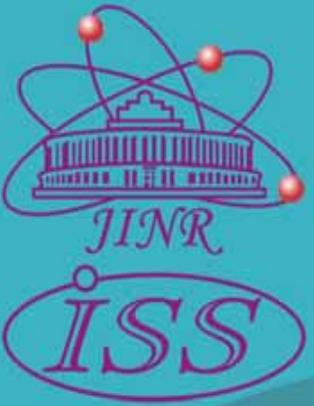
Quest in

Relativistic Multifragmentation

BECQUEREL

PROJECT

- ✓ *Total length = 110.181 m*
- ✓ *Number of stars = 990*
- ✓ *Interaction mean free path = 11.1 ± 0.4 cm*
- ✓ *From total stars: 146 are $0+$ *
116 are $1+$



Beryllium (Boron)

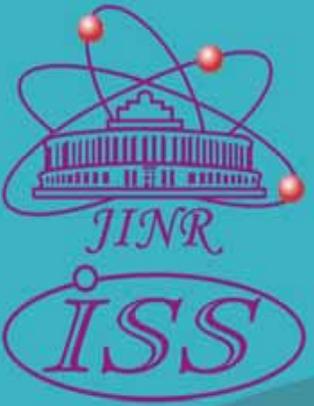
Clustering

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BECQUEREL PROJECT

<i>Black and gray tracks</i>	<i>Z>2</i>	<i>Z=2</i>	<i>Z=1 (forward cone)</i>	<i>Z=1 (wide cone)</i>	<i>Number of stars</i>
-	-	3	1	-	12
-	-	3	1	1	12
-	-	3	2	-	2
-	-	3	-	-	1
-	1	-	1	-	27
-	1	1	-	-	3
-	1	2	-	-	4
-	1	-	-	2	10
-	1	1	-	1	2
-	1	-	-	4	0
-	1	1	-	2	1
-	-	2	-	3	3
-	-	-	8	-	1
-	-	1	5	-	1



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<i>Black and gray tracks</i>	<i>Z>2</i>	<i>Z=2</i>	<i>Z=1 (forward cone)</i>	<i>Z=1 (wide cone)</i>	<i>Number of stars</i>
1	-	3	1	-	15
1	-	3	-	2	1
1	-	3	-	-	1
1	1	-	1	-	13
1	1	-	2	-	10
1	1	1	-	-	2
1	2	-	-	-	1
1	1	-	-	-	21
2	1	1	-	-	2