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| № | Спектр | Фон | Толщина земли  (см) | Расстояния от стены до детектора (см) | Смещение от центральной оси (см) | Глубина с положением детектора в коллиматоре  (см) | Названия папки со спектрами |
| 1 | Collimator\_100\_0\_line/001\_Cs\_y\_100\_x\_0.sps | bkg\_20200208.sps | 0 | 100 | 0 | 0 | Collimator\_100\_0\_line |
| 2 | Collimator\_100\_0\_line/002\_Cs\_y\_100\_x\_10.sps | bkg\_20200208.sps | 0 | 100 | 10 | 0 | Collimator\_100\_0\_line |
| 3 | Collimator\_100\_0\_line/003\_Cs\_y\_100\_x\_20.sps | bkg\_20200208.sps | 0 | 100 | 20 | 0 | Collimator\_100\_0\_line |
| 4 | Collimator\_100\_0\_line/004\_Cs\_y\_100\_x\_30.sps | bkg\_20200208.sps | 0 | 100 | 30 | 0 | Collimator\_100\_0\_line |
| 5 | Collimator\_100\_0\_line/005\_Cs\_y\_100\_x\_40.sps | bkg\_20200208.sps | 0 | 100 | 40 | 0 | Collimator\_100\_0\_line |
| 6 | Collimator\_100\_0\_line/006\_Cs\_y\_100\_x\_50.sps | bkg\_20200208.sps | 0 | 100 | 50 | 0 | Collimator\_100\_0\_line |
| 7 | Collimator\_100\_0\_line/007\_Cs\_y\_100\_x\_60.sps | bkg\_20200208.sps | 0 | 100 | 60 | 0 | Collimator\_100\_0\_line |
| 8 | Collimator\_100\_0\_line/008\_Cs\_y\_100\_x\_70.sps | bkg\_20200208.sps | 0 | 100 | 70 | 0 | Collimator\_100\_0\_line |
| 9 | Collimator\_100\_0\_line/009\_Cs\_y\_100\_x\_80.sps | bkg\_20200208.sps | 0 | 100 | 80 | 0 | Collimator\_100\_0\_line |
| 10 | Collimator\_100\_0\_line/010\_Cs\_y\_100\_x\_90.sps | bkg\_20200208.sps | 0 | 100 | 90 | 0 | Collimator\_100\_0\_line |
| 11 | Collimator\_100\_0\_line/011\_Cs\_y\_100\_x\_100.sps | bkg\_20200208.sps | 0 | 100 | 100 | 0 | Collimator\_100\_0\_line |
| 12 | Земля/001\_Cs\_land\_5cm\_y\_100\_x\_0.sps | bkg\_20200218.sps | 5 | 100 | 0 | 0 | Земля |
| 13 | Земля/002\_Cs\_land\_5cm\_y\_100\_x\_5.sps | bkg\_20200218.sps | 5 | 100 | 5 | 0 | Земля |
| 14 | Земля/003\_Cs\_land\_5cm\_y\_100\_x\_10.sps | bkg\_20200218.sps | 5 | 100 | 10 | 0 | Земля |
| 15 | Земля/004\_Cs\_land\_5cm\_y\_100\_x\_15.sps | bkg\_20200218.sps | 5 | 100 | 15 | 0 | Земля |
| 16 | Земля/005\_Cs\_land\_5cm\_y\_100\_x\_20.sps | bkg\_20200218.sps | 5 | 100 | 20 | 0 | Земля |
| 17 | Земля/006\_Cs\_land\_5cm\_y\_100\_x\_25.sps | bkg\_20200218.sps | 5 | 100 | 25 | 0 | Земля |
| 18 | Земля/007\_Cs\_land\_5cm\_y\_100\_x\_30.sps | bkg\_20200218.sps | 5 | 100 | 30 | 0 | Земля |
| 19 | Земля/008\_Cs\_land\_5cm\_y\_100\_x\_35.sps | bkg\_20200218.sps | 5 | 100 | 35 | 0 | Земля |
| 20 | Земля/009\_Cs\_land\_5cm\_y\_100\_x\_40.sps | bkg\_20200219.sps | 5 | 100 | 40 | 0 | Земля |
| 21 | Земля/010\_Cs\_land\_5cm\_y\_100\_x\_45.sps | bkg\_20200219.sps | 5 | 100 | 45 | 0 | Земля |
| 22 | Земля/011\_Cs\_land\_5cm\_y\_100\_x\_50.sps | bkg\_20200219.sps | 5 | 100 | 50 | 0 | Земля |
| 23 | Земля/012\_Cs\_land\_5cm\_y\_100\_x\_55.sps | bkg\_20200219.sps | 5 | 100 | 55 | 0 | Земля |
| 24 | Земля/013\_Cs\_land\_5cm\_y\_100\_x\_60.sps | bkg\_20200219.sps | 5 | 100 | 60 | 0 | Земля |
| 25 | Земля/014\_Cs\_land\_5cm\_y\_100\_x\_65.sps | bkg\_20200219.sps | 5 | 100 | 65 | 0 | Земля |
| 26 | Земля/015\_Cs\_land\_5cm\_y\_100\_x\_70.sps | bkg\_20200220.sps | 5 | 100 | 70 | 0 | Земля |
| 27 | Земля/016\_Cs\_land\_5cm\_y\_100\_x\_75.sps | bkg\_20200220.sps | 5 | 100 | 75 | 0 | Земля |
| 28 | Земля/017\_Cs\_land\_5cm\_y\_100\_x\_80.sps | bkg\_20200220.sps | 5 | 100 | 80 | 0 | Земля |
| 29 | Земля/018\_Cs\_land\_5cm\_y\_100\_x\_90.sps | bkg\_20200220.sps | 5 | 100 | 90 | 0 | Земля |
| 30 | Земля/019\_Cs\_land\_5cm\_y\_100\_x\_100.sps | bkg\_20200220.sps | 5 | 100 | 100 | 0 | Земля |
| 31 | Land\_10cm\_on/001\_Cs\_land\_10cm\_y\_100\_x\_0.sps | bkg\_20200229.sps | 10 | 100 | 0 | 0 | Land\_10cm\_on |
| 32 | Land\_10cm\_on/002\_Cs\_land\_10cm\_y\_100\_x\_5.sps | bkg\_20200229.sps | 10 | 100 | 5 | 0 | Land\_10cm\_on |
| 33 | Land\_10cm\_on/003\_Cs\_land\_10cm\_y\_100\_x\_10.sps | bkg\_20200229.sps | 10 | 100 | 10 | 0 | Land\_10cm\_on |
| 34 | Land\_10cm\_on/004\_Cs\_land\_10cm\_y\_100\_x\_15.sps | bkg\_20200229.sps | 10 | 100 | 15 | 0 | Land\_10cm\_on |
| 35 | Land\_10cm\_on/005\_Cs\_land\_10cm\_y\_100\_x\_20.sps | bkg\_20200229.sps | 10 | 100 | 20 | 0 | Land\_10cm\_on |
| 36 | Land\_10cm\_on/006\_Cs\_land\_10cm\_y\_100\_x\_25.sps | bkg\_20200229.sps | 10 | 100 | 25 | 0 | Land\_10cm\_on |
| 37 | Land\_10cm\_on/007\_Cs\_land\_10cm\_y\_100\_x\_30.sps | bkg\_20200229.sps | 10 | 100 | 30 | 0 | Land\_10cm\_on |
| 38 | Land\_10cm\_on/008\_Cs\_land\_10cm\_y\_100\_x\_35.sps | bkg\_20200229.sps | 10 | 100 | 35 | 0 | Land\_10cm\_on |
| 39 | Land\_10cm\_on/009\_Cs\_land\_10cm\_y\_100\_x\_40.sps | bkg\_20200229.sps | 10 | 100 | 40 | 0 | Land\_10cm\_on |
| 40 | Land\_10cm\_on/010\_Cs\_land\_10cm\_y\_100\_x\_45.sps | bkg\_20200229.sps | 10 | 100 | 45 | 0 | Land\_10cm\_on |
| 41 | Land\_10cm\_on/011\_Cs\_land\_10cm\_y\_100\_x\_50.sps | bkg\_20200229.sps | 10 | 100 | 50 | 0 | Land\_10cm\_on |
| 42 | Land\_10cm\_on/012\_Cs\_land\_10cm\_y\_100\_x\_55.sps | bkg\_20200229.sps | 10 | 100 | 55 | 0 | Land\_10cm\_on |
| 43 | Collimator\_20cm\_deep\_100\_0\_line/001\_Pb20cm\_y\_100\_x\_0.sps | bkg\_20200211.sps | 0 | 100 | 0 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 44 | Collimator\_20cm\_deep\_100\_0\_line/002\_Pb20cm\_y\_100\_x\_5.sps | bkg\_20200211.sps | 0 | 100 | 5 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 45 | Collimator\_20cm\_deep\_100\_0\_line/003\_Pb20cm\_y\_100\_x\_10.sps | bkg\_20200211.sps | 0 | 100 | 10 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 46 | Collimator\_20cm\_deep\_100\_0\_line/004\_Pb20cm\_y\_100\_x\_15.sps | bkg\_20200211.sps | 0 | 100 | 15 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 47 | Collimator\_20cm\_deep\_100\_0\_line/005\_Pb20cm\_y\_100\_x\_20.sps | bkg\_20200211.sps | 0 | 100 | 20 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 48 | Collimator\_20cm\_deep\_100\_0\_line/006\_Pb20cm\_y\_100\_x\_25.sps | bkg\_20200211.sps | 0 | 100 | 25 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 49 | Collimator\_20cm\_deep\_100\_0\_line/007\_Pb20cm\_y\_100\_x\_30.sps | bkg\_20200211.sps | 0 | 100 | 30 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 50 | Collimator\_20cm\_deep\_100\_0\_line/008\_Pb20cm\_y\_100\_x\_35.sps | bkg\_20200211.sps | 0 | 100 | 35 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 51 | Collimator\_20cm\_deep\_100\_0\_line/008\_Pb20cm\_y\_100\_x\_40.sps | bkg\_20200211.sps | 0 | 100 | 40 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 52 | Collimator\_20cm\_deep\_100\_0\_line/009\_Pb20cm\_y\_100\_x\_45.sps | bkg\_20200211.sps | 0 | 100 | 45 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 53 | Collimator\_20cm\_deep\_100\_0\_line/010\_Pb20cm\_y\_100\_x\_50.sps | bkg\_20200212.sps | 0 | 100 | 50 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 54 | Collimator\_20cm\_deep\_100\_0\_line/011\_Pb20cm\_y\_100\_x\_55.sps | bkg\_20200213.sps | 0 | 100 | 55 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 55 | Collimator\_20cm\_deep\_100\_0\_line/012\_Pb20cm\_y\_100\_x\_60.sps | bkg\_20200213.sps | 0 | 100 | 60 | 20 | Collimator\_20cm\_deep\_100\_0\_line |
| 56 | Land\_5cm\_deep\_20cm/001\_Pb20cm\_land\_y\_100\_x\_0\_test\_2.sps | bkg\_20200228.sps | 5 | 100 | 0 | 20 | Land\_5cm\_deep\_20cm |
| 57 | Land\_5cm\_deep\_20cm/002\_Pb20cm\_land\_y\_100\_x\_5.sps | bkg\_20200221.sps | 5 | 100 | 5 | 20 | Land\_5cm\_deep\_20cm |
| 58 | Land\_5cm\_deep\_20cm/003\_Pb20cm\_land\_y\_100\_x\_10.sps | bkg\_20200221.sps | 5 | 100 | 10 | 20 | Land\_5cm\_deep\_20cm |
| 59 | Land\_5cm\_deep\_20cm/004\_Pb20cm\_land\_y\_100\_x\_15.sps | bkg\_20200221.sps | 5 | 100 | 15 | 20 | Land\_5cm\_deep\_20cm |
| 60 | Land\_5cm\_deep\_20cm/005\_Pb20cm\_land\_y\_100\_x\_20.sps | bkg\_20200221.sps | 5 | 100 | 20 | 20 | Land\_5cm\_deep\_20cm |
| 61 | Land\_5cm\_deep\_20cm/006\_Pb20cm\_land\_y\_100\_x\_25.sps | bkg\_20200221.sps | 5 | 100 | 25 | 20 | Land\_5cm\_deep\_20cm |
| 62 | Land\_5cm\_deep\_20cm/007\_Pb20cm\_land\_y\_100\_x\_30.sps | bkg\_20200222.sps | 5 | 100 | 30 | 20 | Land\_5cm\_deep\_20cm |
| 63 | Land\_5cm\_deep\_20cm/008\_Pb20cm\_land\_y\_100\_x\_35.sps | bkg\_20200222.sps | 5 | 100 | 35 | 20 | Land\_5cm\_deep\_20cm |
| 64 | Land\_5cm\_deep\_20cm/009\_Pb20cm\_land\_y\_100\_x\_40.sps | bkg\_20200222.sps | 5 | 100 | 40 | 20 | Land\_5cm\_deep\_20cm |
| 65 | Land\_5cm\_deep\_20cm/010\_Pb20cm\_land\_y\_100\_x\_45.sps | bkg\_20200222.sps | 5 | 100 | 45 | 20 | Land\_5cm\_deep\_20cm |
| 66 | Land\_5cm\_deep\_20cm/011\_Pb20cm\_land\_y\_100\_x\_50.sps | bkg\_20200222.sps | 5 | 100 | 50 | 20 | Land\_5cm\_deep\_20cm |
| 67 | Land\_10cm\_deep\_20cm/001\_Pb20cm\_y\_100\_x\_0.sps | bkg\_20200226.sps | 10 | 100 | 0 | 20 | Land\_10cm\_deep\_20cm |
| 68 | Land\_10cm\_deep\_20cm/002\_Pb20cm\_y\_100\_x\_5.sps | bkg\_20200226.sps | 10 | 100 | 5 | 20 | Land\_10cm\_deep\_20cm |
| 69 | Land\_10cm\_deep\_20cm/003\_Pb20cm\_y\_100\_x\_10.sps | bkg\_20200226.sps | 10 | 100 | 10 | 20 | Land\_10cm\_deep\_20cm |
| 70 | Land\_10cm\_deep\_20cm/004\_Pb20cm\_y\_100\_x\_15.sps | bkg\_20200226.sps | 10 | 100 | 15 | 20 | Land\_10cm\_deep\_20cm |
| 71 | Land\_10cm\_deep\_20cm/005\_Pb20cm\_y\_100\_x\_20.sps | bkg\_20200226.sps | 10 | 100 | 20 | 20 | Land\_10cm\_deep\_20cm |
| 72 | Land\_10cm\_deep\_20cm/006\_Pb20cm\_y\_100\_x\_25.sps | bkg\_20200226.sps | 10 | 100 | 25 | 20 | Land\_10cm\_deep\_20cm |
| 73 | Land\_10cm\_deep\_20cm/007\_Pb20cm\_y\_100\_x\_30.sps | bkg\_20200226.sps | 10 | 100 | 30 | 20 | Land\_10cm\_deep\_20cm |
| 74 | Land\_10cm\_deep\_20cm/008\_Pb20cm\_y\_100\_x\_35.sps | bkg\_20200227.sps | 10 | 100 | 35 | 20 | Land\_10cm\_deep\_20cm |
| 75 | Land\_10cm\_deep\_20cm/009\_Pb20cm\_y\_100\_x\_40.sps | bkg\_20200227.sps | 10 | 100 | 40 | 20 | Land\_10cm\_deep\_20cm |
| 76 | Land\_10cm\_deep\_20cm/010\_Pb20cm\_y\_100\_x\_45.sps | bkg\_20200227.sps | 10 | 100 | 45 | 20 | Land\_10cm\_deep\_20cm |
| 77 | Land\_10cm\_deep\_20cm/011\_Pb20cm\_y\_100\_x\_50.sps | bkg\_20200228.sps | 10 | 100 | 50 | 20 | Land\_10cm\_deep\_20cm |
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| № | Спектр | Источник | Фон | Толщина земли  (см) | Расстояния от стены до детектора (см) | Смещение от центральной оси (см) | Глубина с положением детектора в коллиматоре  (см) | Названия папки со спектрами |
| 1 | Collimator\_15cm\_deep/001\_yPb\_50\_x\_0\_Cs.sps | Cs137 | bkg\_20200207.sps | 0 | 50 | 0 | 15 | Collimator\_15cm\_deep |
| 2 | Collimator\_15cm\_deep/002\_Ba133\_yPb\_50\_x\_0.sps | Ba133 | bkg\_20200207.sps | 0 | 50 | 0 | 15 | Collimator\_15cm\_deep |
| 3 | Collimator\_15cm\_deep/003\_Co60\_yPb\_50\_x\_0.sps | Co60 | bkg\_20200207.sps | 0 | 50 | 0 | 15 | Collimator\_15cm\_deep |
| 4 | Collimator\_15cm\_deep/004\_Cs\_y\_50\_x\_0.sps | Cs137 | bkg\_20200207.sps | 0 | 50 | 0 | 0 | Collimator\_15cm\_deep |
| 5 | Collimator\_15cm\_deep/005\_Ba\_y\_50\_x\_0.sps | Ba133 | bkg\_20200207.sps | 0 | 50 | 0 | 0 | Collimator\_15cm\_deep |
| 6 | Collimator\_15cm\_deep/006\_Co\_y\_50\_x\_0.sps | Co60 | bkg\_20200207.sps | 0 | 50 | 0 | 0 | Collimator\_15cm\_deep |
| 7 |  |  |  |  |  |  |  |  |

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| Измерение с различной толщиной земли. Спектры для каждого положения измерялись в одни день с целью уменьшения долговременных изменений характеристик дектетра. | | | | | | | |
| № | Спектр | Фон | Толщина земли  (см) | Расстояния от стены до детектора (см) | Смещение от центральной оси (см) | Глубина с положением детектора в коллиматоре  (см) | Названия папки со спектрами |
| 1 | 001\_Cs\_y\_100\_ x\_0.sps | bkg\_20200303.sps | 0 | 100 | 0 | 0 | test\_3\_in\_1 |
| 2 | 002\_Cs\_land\_5cm\_y\_100\_ x\_0.sps | bkg\_20200303.sps | 5 | 100 | 0 | 0 | test\_3\_in\_1 |
| 3 | 003\_Cs\_land\_10cm\_y\_100\_ x\_0.sps | bkg\_20200303.sps | 10 | 100 | 0 | 0 | test\_3\_in\_1 |
| 4 | 004\_Cs\_y\_100\_ x\_10.sps | bkg\_20200304.sps | 0 | 100 | 10 | 0 | test\_3\_in\_1 |
| 5 | 005\_Cs\_land\_5cm\_y\_100\_ x\_10.sps | bkg\_20200304.sps | 5 | 100 | 10 | 0 | test\_3\_in\_1 |
| 6 | 006\_Cs\_land\_10cm\_y\_100\_ x\_10.sps | bkg\_20200304.sps | 10 | 100 | 10 | 0 | test\_3\_in\_1 |
| 7 | test\_3\_in\_1/ 007\_Cs\_y\_100\_ x\_20.sps | bkg\_20200310.sps | 0 | 100 | 20 | 0 | test\_3\_in\_1 |
| 8 | test\_3\_in\_1/ 008\_Cs\_land\_5cm\_y\_100\_ x\_20.sps | bkg\_20200310.sps | 5 | 100 | 20 | 0 | test\_3\_in\_1 |
| 9 | test\_3\_in\_1/ 009\_Cs\_land\_10cm\_y\_100\_ x\_20.sps | bkg\_20200310.sps | 10 | 100 | 20 | 0 | test\_3\_in\_1 |
| 10 | test\_3\_in\_1/ 010\_Cs\_y\_100\_ x\_30.sps | bkg\_20200310.sps | 0 | 100 | 30 | 0 | test\_3\_in\_1 |
| 11 | test\_3\_in\_1 /011\_Cs\_land\_5cm\_y\_100\_ x\_30.sps | bkg\_20200310.sps | 5 | 100 | 30 | 0 | test\_3\_in\_1 |
| 12 | test\_3\_in\_1 /012\_Cs\_land\_10cm\_y\_100\_ x\_30.sps | bkg\_20200310.sps | 10 | 100 | 30 | 0 | test\_3\_in\_1 |
| 13 | test\_3\_in\_1/ 013\_Cs\_y\_100\_ x\_40.sps | tmp\_bkg\_202003112.sps | 0 | 100 | 40 | 0 | test\_3\_in\_1 |
| 14 | test\_3\_in\_1 /014\_Cs\_land\_5cm\_y\_100\_ x\_40.sps | tmp\_bkg\_202003112.sps | 5 | 100 | 40 | 0 | test\_3\_in\_1 |
| 15 | test\_3\_in\_1 /015\_Cs\_land\_10cm\_y\_100\_ x\_40.sps | tmp\_bkg\_202003112.sps | 10 | 100 | 40 | 0 | test\_3\_in\_1 |

Энергетическое разрешение детектора.

