



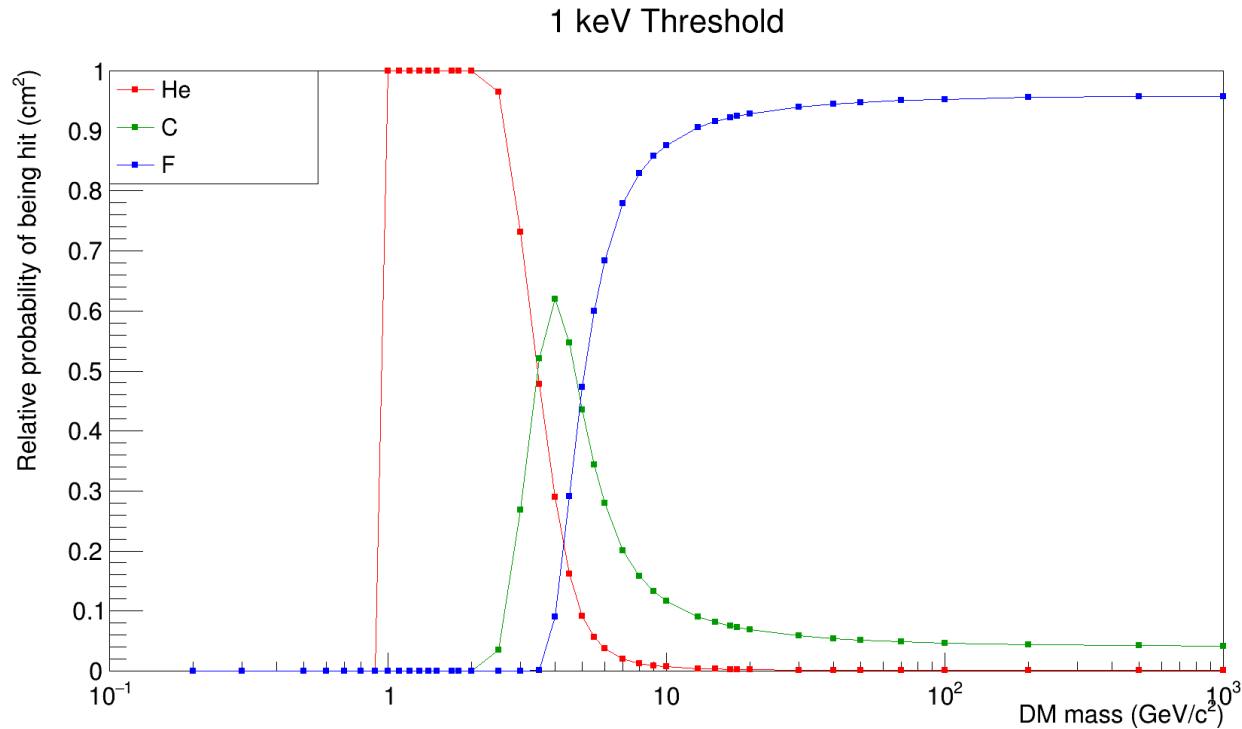
UPDATE ON OLD AND NEW GAS SENSITIVITY

G. Dho, E. Baracchini

THRESHOLD STUDY

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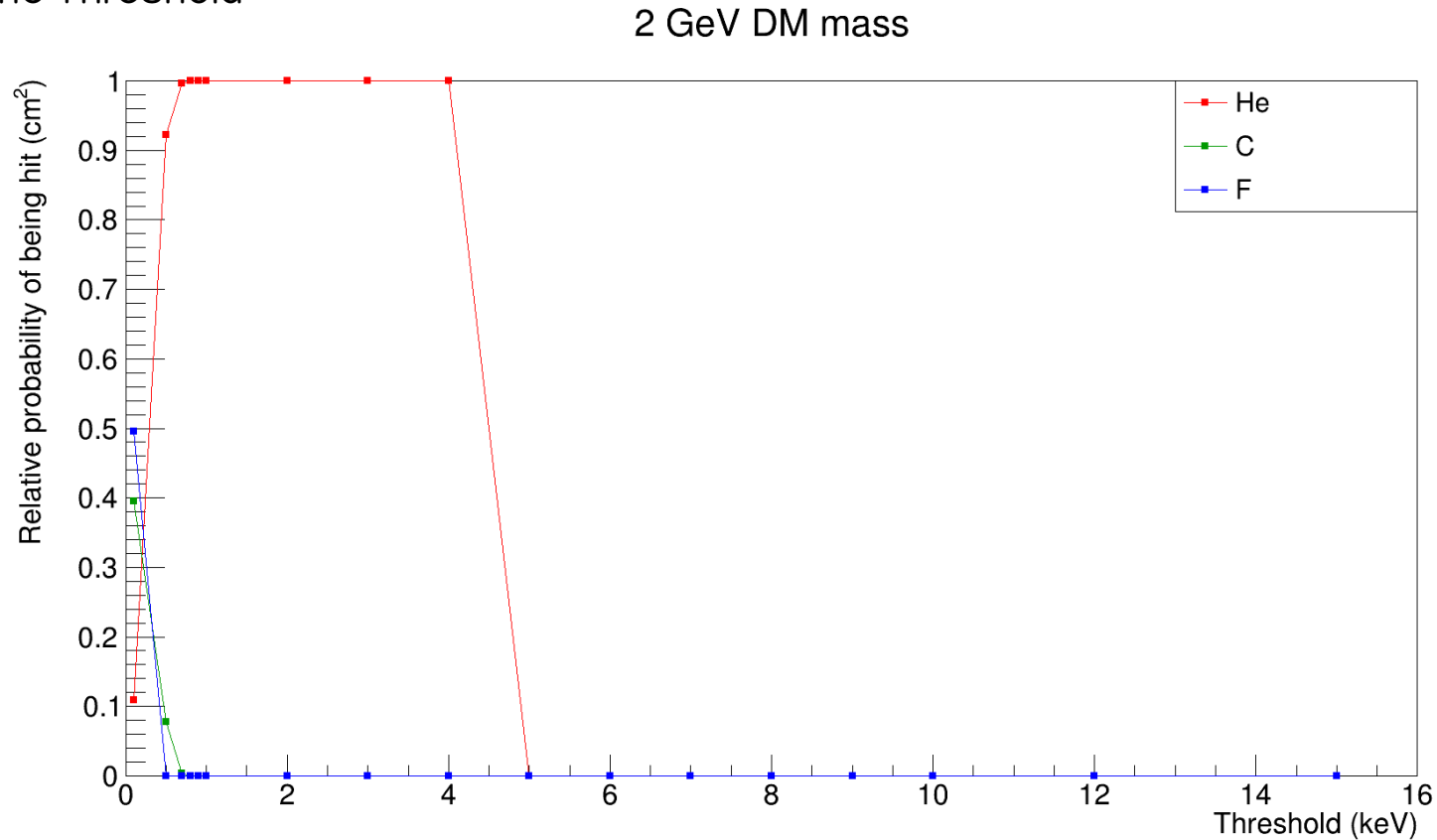
- I studied more in depth the effect of the threshold.



How does the threshold and WIMP mass affect the probability of detecting one of the elements

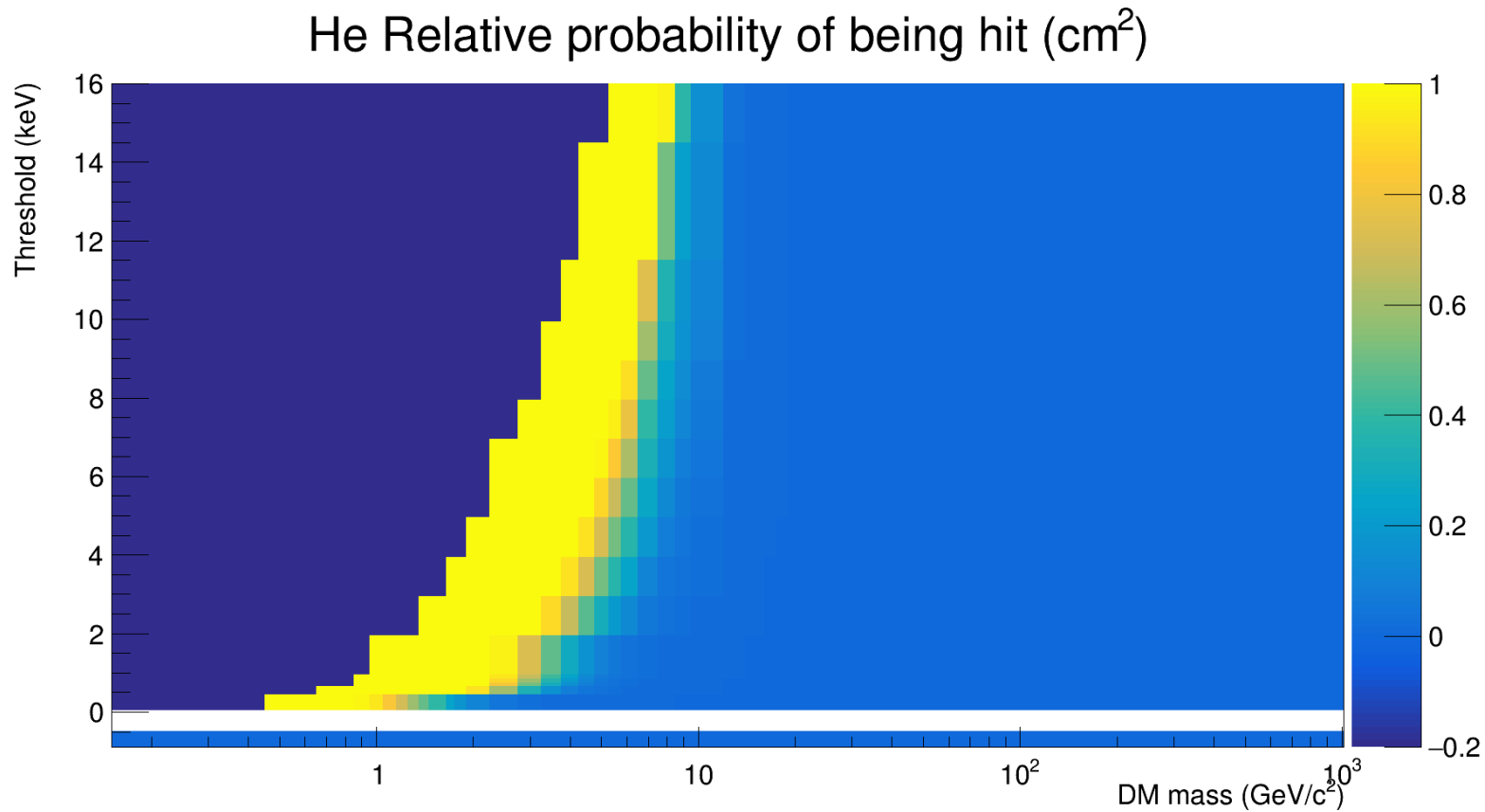
THRESHOLD STUDY

- Varying the Threshold



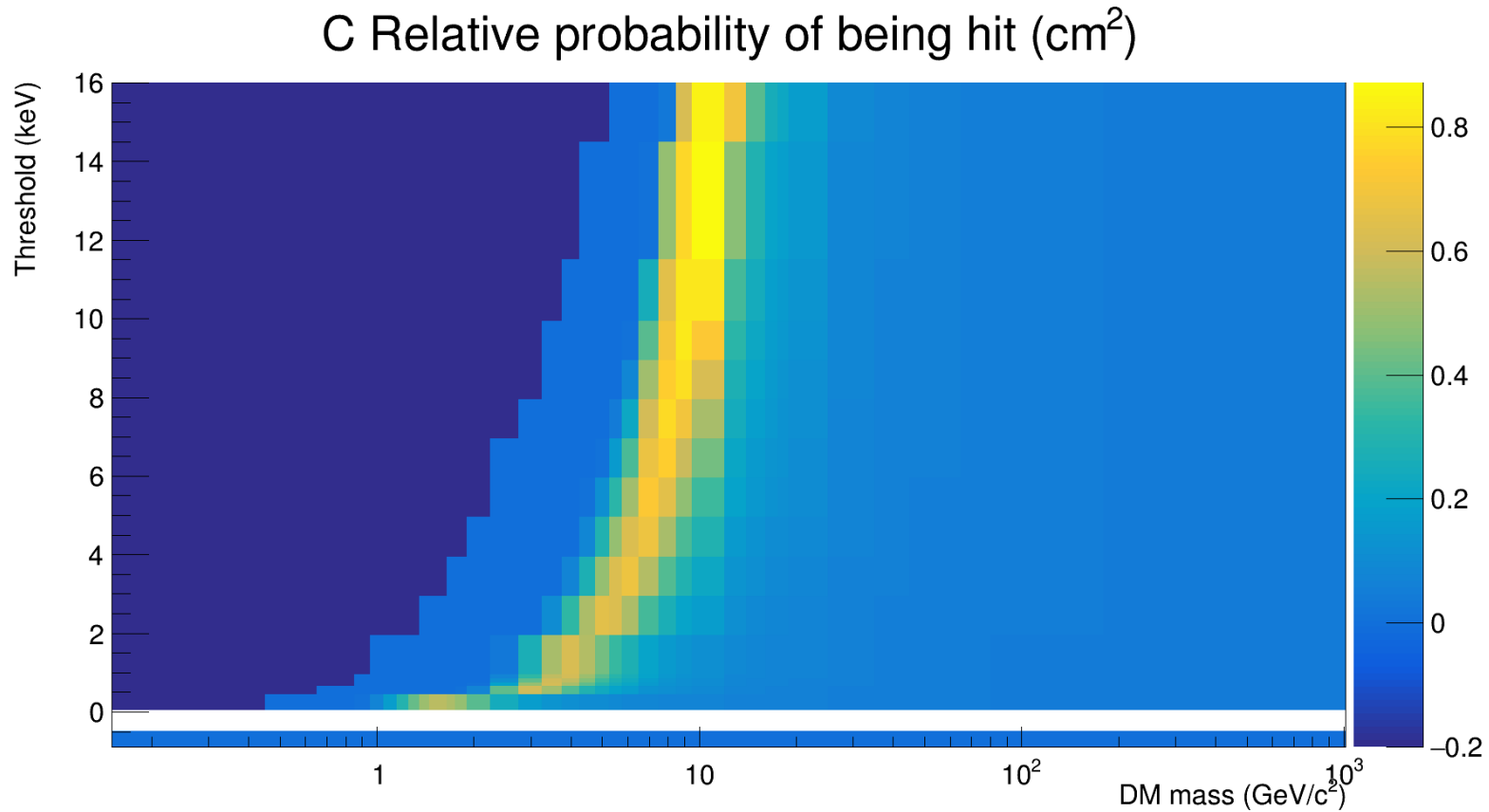
THRESHOLD STUDY

- 3D He



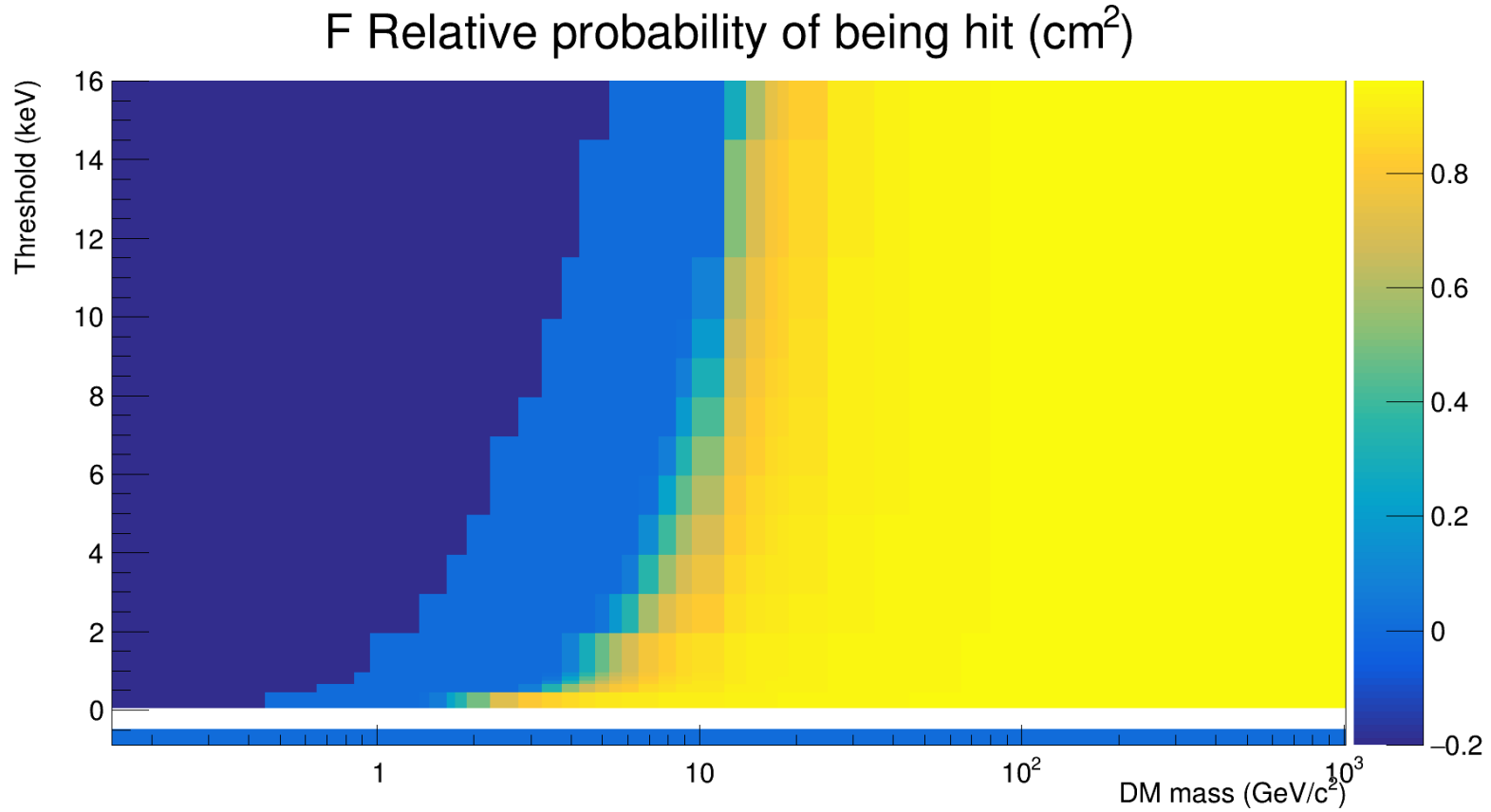
THRESHOLD STUDY

- 3D C



THRESHOLD STUDY

- 3D F

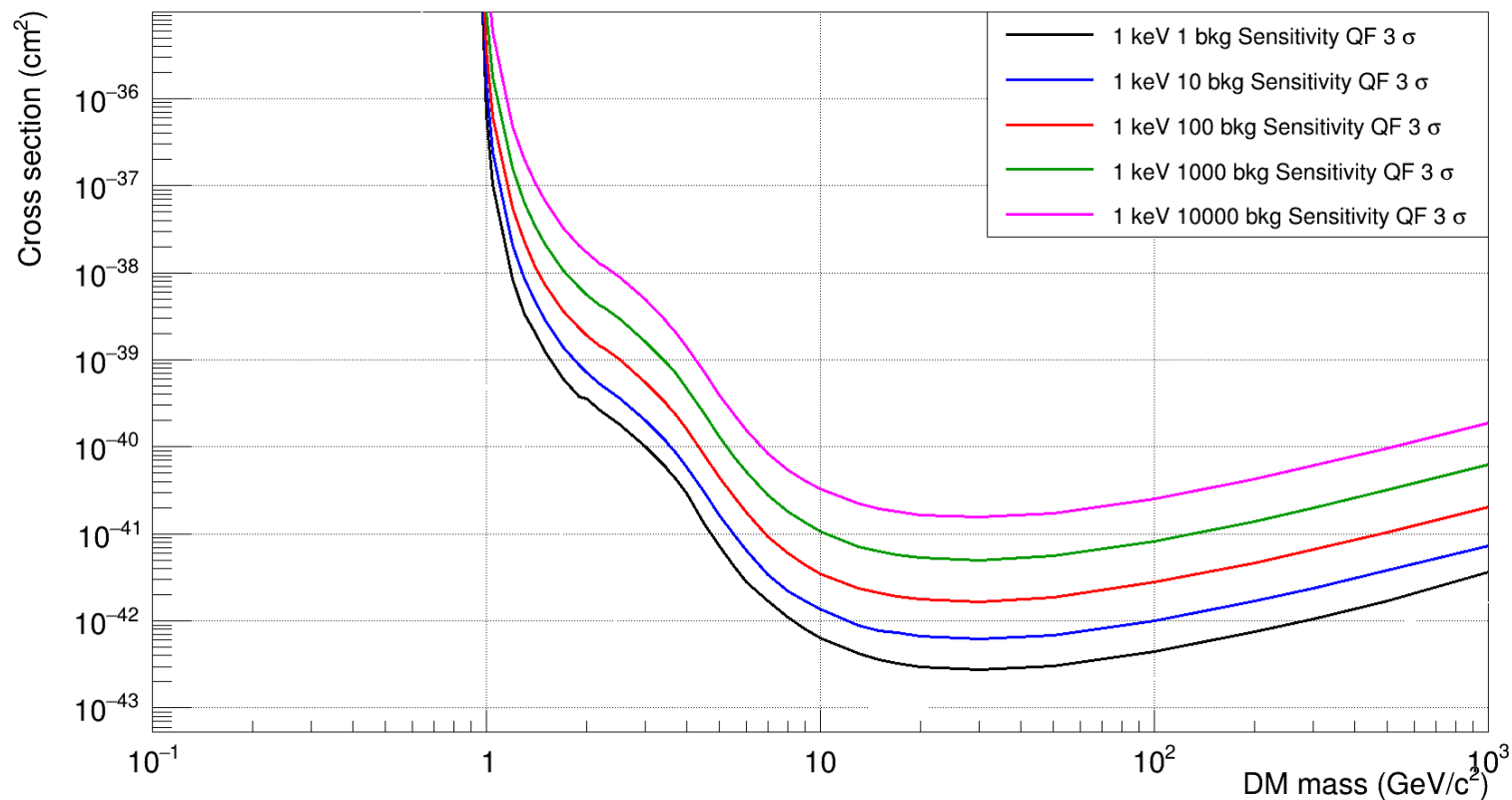


SENSITIVITY

SENSITIVITY

- Last analysis on sensitivity studies

1 m³ 1 year exposure



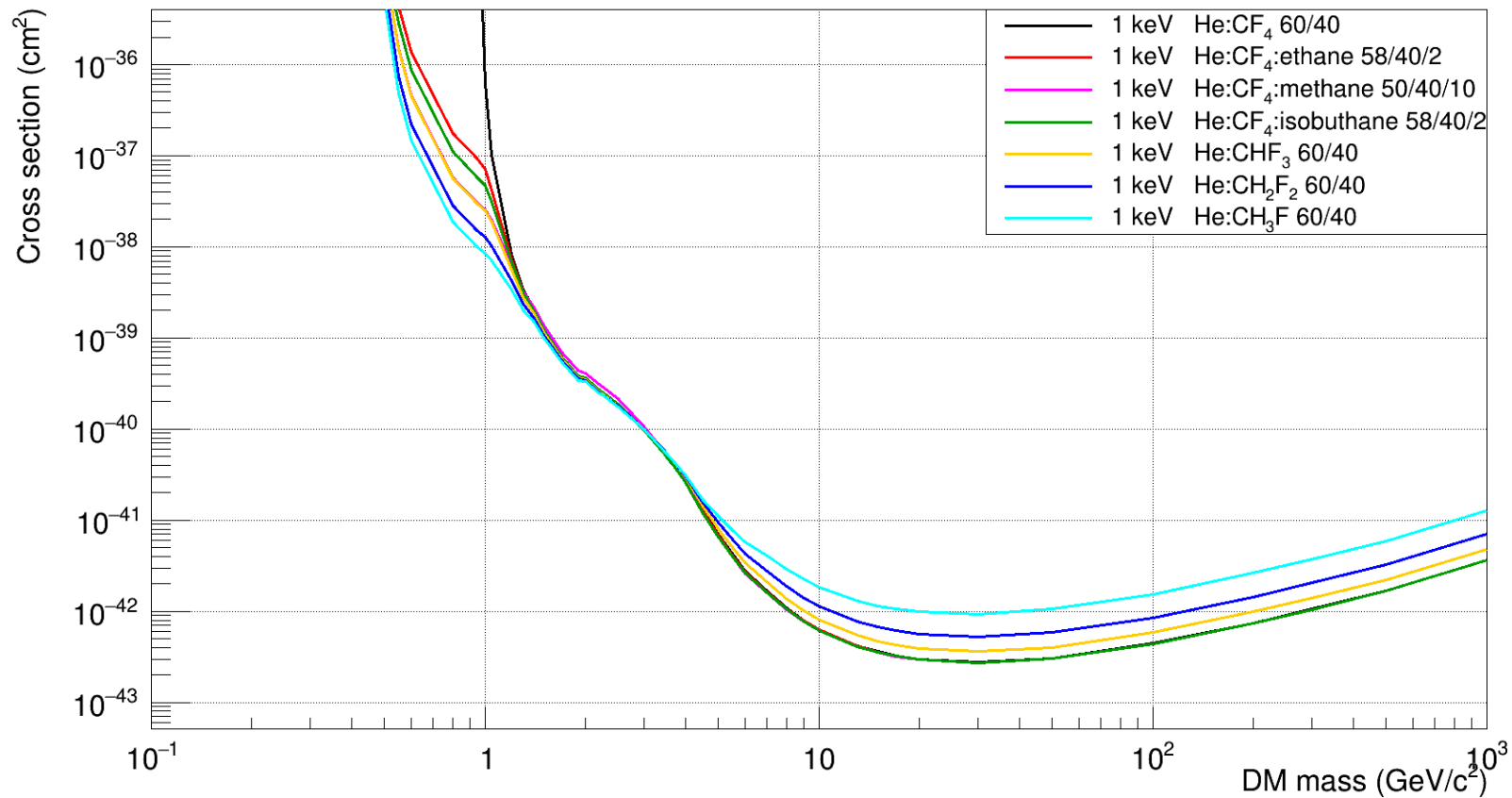
SENSITIVITY

- New gas mixtures tried

| Gas mixture | Percentage | Density (kg/cm ³) |
|-----------------------------------|------------|-------------------------------|
| He:CF ₄ | 60/40 | 1,588 |
| He:CF ₄ :ethane | 58/40/2 | 1,611 |
| He:CF ₄ :methane | 50/40/10 | 1,637 |
| He:CF ₄ :isobuthane | 58/40/2 | 1,635 |
| He:CHF ₃ | 60/40 | 1,278 |
| He:CH ₂ F ₂ | 60/40 | 0,972 |
| He:CH ₃ F | 60/40 | 0,676 |

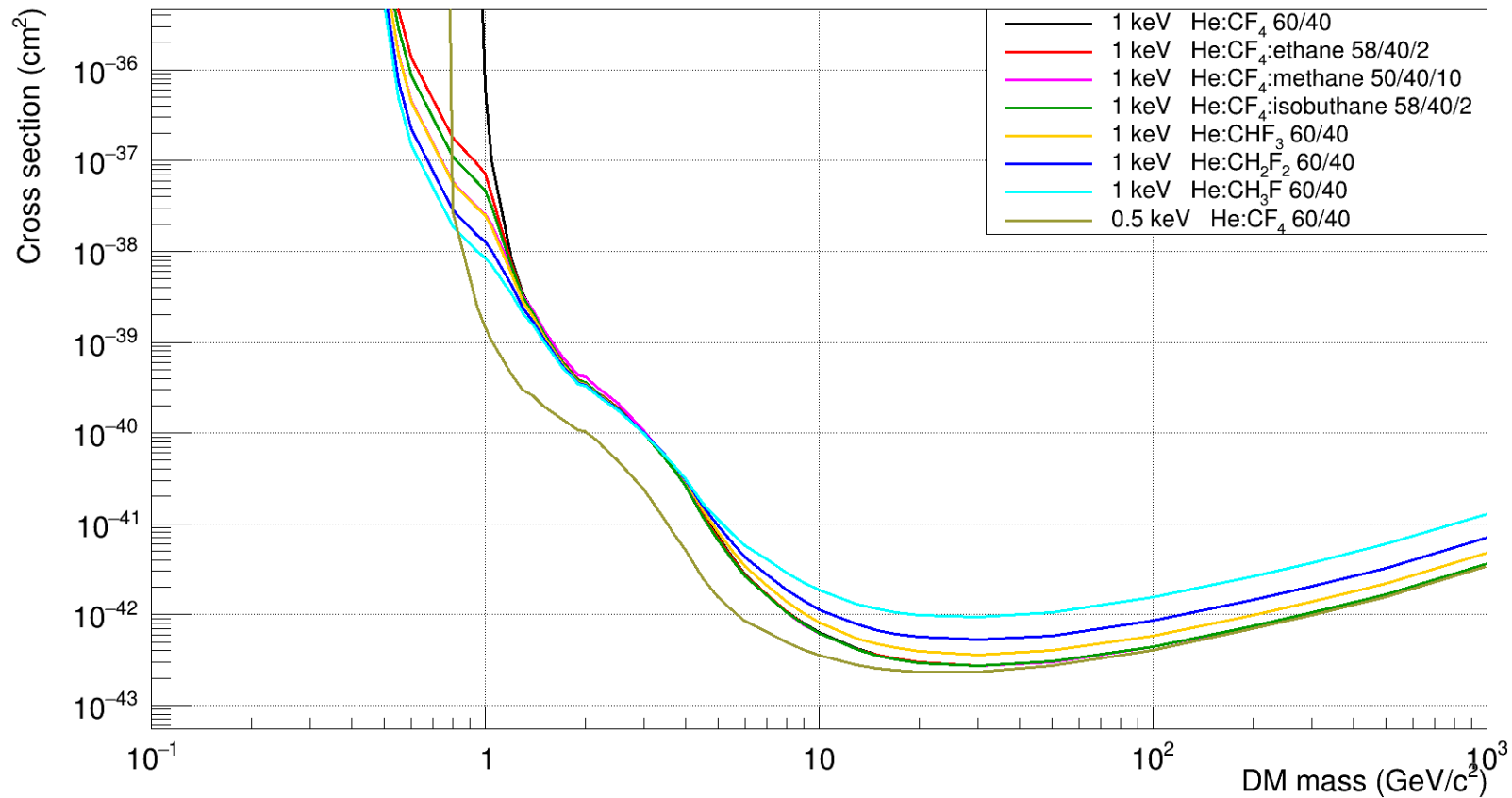
SENSITIVITY

1 year 1m^3 exposure 1 evt background



SENSITIVITY

1 year 1m³ exposure 1 evt background



SENSITIVITY

1 year 1m³ exposure 1 evt background

