# *i* process and the neutron-capture rate of <sup>126</sup>Sb

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#### The various nucleosynthesis processes











#### **CEMP** stars



#### The various nucleosynthesis processes





Hampel *et al.* (2016) 6



Average Properties of the nucleus













<sup>127</sup>Sb



<sup>127</sup>Sb





NLD

GSF



#### Conclusion

<sup>135</sup>I region interesting for the i-process

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First work with NLD and GSF for <sup>127</sup>Sb, and MACS for <sup>126</sup>Sb

Constrained uncertainty of MACS, good agreement with theory (but not ENDF)

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## Outlook

Get data for more nuclei in the region (we are working on getting a <sup>128</sup>Te target)

Extrapolate NLD and GSF data for those we can't reach

Run model-consistent i-process simulation with more precise data and get more precise info about possible bottleneck

## Thank you!

#### Backup

