

DM@NLO

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LAPTh Annecy-le-Vieux

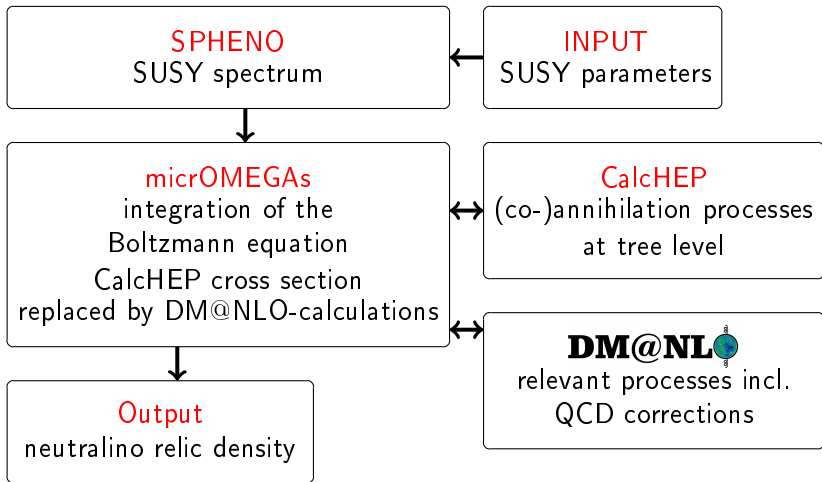
Björn Herrmann



<http://dmnlo.hepforge.org>



DM@NLO-Structure





DM@NLO-included processes

ChiChi2QQ

$$\tilde{\chi}_i^0 \tilde{\chi}_j^0 \rightarrow q\bar{q}$$

$$\tilde{\chi}_k^\pm \tilde{\chi}_l^\pm \rightarrow q\bar{q}$$

$$\tilde{\chi}_i^0 \tilde{\chi}_k^\pm \rightarrow q\bar{q}'$$

NeuQ2qx

$$\tilde{\chi}_i^0 \tilde{q} \rightarrow qV$$

$$\tilde{\chi}_k^\pm \tilde{q} \rightarrow qV$$

$$\tilde{\chi}_i^0 \tilde{q} \rightarrow qH$$

$$\tilde{\chi}_k^\pm \tilde{q} \rightarrow qH$$

QQ2xx

$$\tilde{q}\tilde{q}^* \rightarrow VV$$

$$\tilde{q}\tilde{q}^* \rightarrow HH$$

$$\tilde{q}\tilde{q}^* \rightarrow HV$$

ChiChi2EW

$$\tilde{\chi}_i^0 \tilde{\chi}_j^0 \rightarrow HH, VH, VV$$

$$\tilde{\chi}_k^\pm \tilde{\chi}_l^\pm \rightarrow HH, VH, VV$$

$$\tilde{\chi}_i^0 \tilde{\chi}_k^\pm \rightarrow HH, VH, VV$$

arXiv:0901.0481
arXiv:0907.0030

arXiv:1212.5241

arXiv:1410.8063



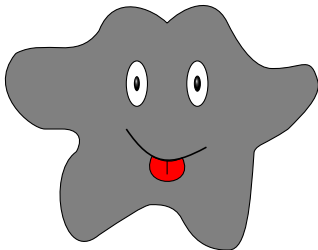
More topics in DM@NLO

- ★ Direct Detection [arXiv:1607.06396](#)
- ★ Scale dependence of the relic density [arXiv:1602.08103v1](#)



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Thank you for your attention