MG5aMC; main 4 steps
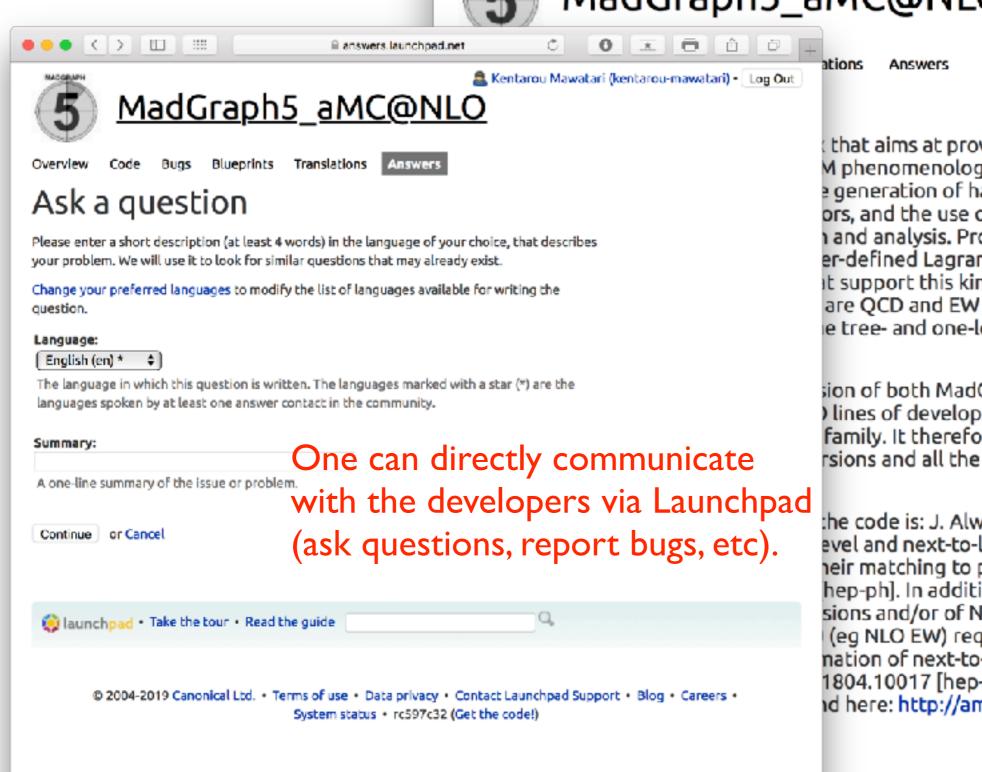
- MG5_aMC> import model **MODEL** (e.g. 2HDM)

- MG5_aMC> generate **PROCESS** (e.g. p p > t t~)

- MG5_aMC> output **(myprocess)**

- MG5_aMC> launch

- MG5_aMC> launch

- MG5_aMC> ...

MG5aMC; tips

- Use auto-completion by "tab (tab)".

- MG5_aMC> help

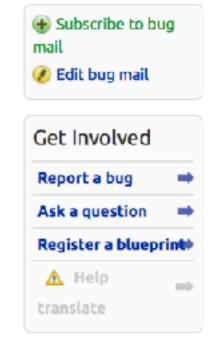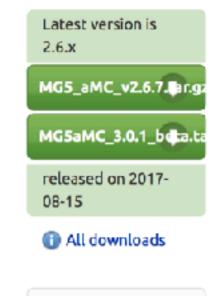- MG5_aMC> help COMMAND (e.g. generate)

- MG5_aMC> tutorial

One can directly communicate with the developers via Launchpad (ask questions, report bugs, etc).

EX-1; R-ratio

- Compute the total cross section for $e^-e^+ \rightarrow \mu^-\mu^+$ in QED at 2 different center-of-mass (CM) energies

- Compare with the analytic result.

- Confirm the R-ratio below and above the J/ψ threshold.

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