the production rate of prompt c-hadrons is evaluated by a fit number of events in bins of

(X_E, decay length),

assuming:

- the X_E distribution of $g \to cc$ from JETSET, scaling the rate to (2.27 +/- 0.24 +/- 0.41)% per had. evt.

- the fragmentation of the prompt c-hadrons constrained by the Peterson function

- no assumption on the X_E distribution of the c-hadrons from b decays

Since the production rate can be written as:

$$P(c \to "c-hadron") = R_c f(c \to "c-hadron")$$

R_c can be measured as:

$$R_c = \Sigma_{D,a \times \Lambda_c^+} P(c \to c-hadron)$$