$\bar{t}t+\mathrm{jet}$ production at NLO QCD

	contribution	processes	correction	subroutine (EvalCS)
A	$\mathrm{d}\sigma_{ttj}^{\mathrm{LO}}\mathrm{d}\mathcal{B}_{t}^{\mathrm{LO}}\mathrm{d}\mathcal{B}_{t}^{\mathrm{LO}}$	3,4,5,6	0	_1L_ttbggg, _1L_ttbqqbg
В	$d\sigma_{\bar{t}t}^{LO} d\mathcal{B}_{\bar{t}j}^{LO} d\mathcal{B}_{t}^{LO} + d\sigma_{\bar{t}t}^{LO} d\mathcal{B}_{\bar{t}}^{LO} d\mathcal{B}_{tj}^{LO}$	33,34 (nJetRad=1-4)	0	_DKJ_1L_ttbgg, _DKJ_1L_ttbqqb
С	$\mathrm{d}\sigma_{\bar{t}tj}^{\mathrm{virt}}\mathrm{d}\mathcal{B}_{\bar{t}}^{\mathrm{LO}}\mathrm{d}\mathcal{B}_{t}^{\mathrm{LO}}$	3,4,5,6	1	_1L_ttbggg, _1L_ttbqqbg
D	$\mathrm{d}\sigma_{\bar{t}tjj}^{\mathrm{real}}\mathrm{d}\mathcal{B}_{\bar{t}}^{\mathrm{LO}}\mathrm{d}\mathcal{B}_{t}^{\mathrm{LO}}$	9-19	2,3	_Real_ttbgggg, _Real_ttbqqbgg _Real_ttbqqbqqb, _1L_ttbggg, _1L_ttbqqbg
Е	$ d\sigma_{\bar{t}t}^{\text{virt}} d\mathcal{B}_{\bar{t}j}^{\text{LO}} d\mathcal{B}_{t}^{\text{LO}} + d\sigma_{\bar{t}t}^{\text{virt}} d\mathcal{B}_{\bar{t}}^{\text{LO}} d\mathcal{B}_{tj}^{\text{LO}} $	33,34 (nJetRad=1-4)	1	_DKJ_1L_ttbgg, _DKJ_1L_ttbqqb
F	$ d\sigma_{\bar{t}tj}^{\text{real}} d\mathcal{B}_{\bar{t}j}^{\text{real}} d\mathcal{B}_{t}^{\text{LO}} + d\sigma_{\bar{t}tj}^{\text{real}} d\mathcal{B}_{\bar{t}}^{\text{LO}} d\mathcal{B}_{tj}^{\text{real}} $	35-38 (nJetRad=1-4)	2,3	_DKJ_Real_ttbggg, _DKJ_Real_ttbqqbg, _DKJ_1L_ttbgg, _DKJ_1L_ttbqqb
G	$d\sigma_{\bar{t}tj}^{LO} d\mathcal{B}_{\bar{t}}^{\text{virt}} d\mathcal{B}_{t}^{LO} + d\sigma_{\bar{t}tj}^{LO} d\mathcal{B}_{\bar{t}}^{LO} d\mathcal{B}_{t}^{\text{virt}}$	3,4,5,6	4	_1LDK_ttbggg, _1LDK_ttbqqbg
Н	$ d\sigma_{\bar{t}t}^{LO} d\mathcal{B}_{\bar{t}j}^{\text{virt}} d\mathcal{B}_{t}^{LO} + d\sigma_{\bar{t}t}^{LO} d\mathcal{B}_{\bar{t}}^{LO} d\mathcal{B}_{tj}^{\text{virt}} + d\sigma_{\bar{t}t}^{LO} d\mathcal{B}_{\bar{t}j}^{LO} d\mathcal{B}_{tj}^{\text{virt}} + d\sigma_{\bar{t}t}^{LO} d\mathcal{B}_{\bar{t}j}^{\text{virt}} d\mathcal{B}_{tj}^{LO} $	33,34 (nJetRad=1-16)	4	_1LDKJ_ttb
I	$\begin{array}{c} \mathrm{d}\sigma_{\bar{t}t}^{\mathrm{LO}} \mathrm{d}\mathcal{B}_{\bar{t}jj}^{\mathrm{real}} \mathrm{d}\mathcal{B}_{t}^{\mathrm{LO}} \\ + \mathrm{d}\sigma_{\bar{t}t}^{\mathrm{LO}} \mathrm{d}\mathcal{B}_{\bar{t}}^{\mathrm{LO}} \mathrm{d}\mathcal{B}_{tjj}^{\mathrm{real}} \\ + \mathrm{d}\sigma_{\bar{t}t}^{\mathrm{LO}} \mathrm{d}\mathcal{B}_{\bar{t}j}^{\mathrm{real}} \mathrm{d}\mathcal{B}_{tj}^{\mathrm{real}} \end{array}$	33,34 (nJetRad=1-20)	5	_REDKJ_ttb

[&]quot;real" means that the jet is allowed to become unresolved

processes				
3	$qg \to \bar{t}t \ q$			
4	$\bar{q}g \to \bar{t}t \; \bar{q}$			
5	$gg o \bar{t}t \ g$			
6	$\bar{q}q o \bar{t}t \ g$			
9	$gg \to \bar{t}t \ g \ g$			
10	$\bar{q}q \to \bar{t}t \ g \ g$			
11	$gg \to \bar{t}t \ q\bar{q}$			
12	$qg \to \bar{t}t \ q \ g$			
13	$\bar{q}g \to \bar{t}t \; \bar{q} \; g$			
14	$\bar{q}q \to \bar{t}t \; (\bar{q}q + \bar{q}'q')$			
15	$q\bar{q}' \to \bar{t}t \ q\bar{q}'$			
16	$qq' \to \bar{t}t \ qq'$			
17	$\bar{q}\bar{q}' \to \bar{t}t \; \bar{q}\bar{q}'$			
18	$qq \to \bar{t}t \ qq$			
19	$\bar{q}\bar{q} o \bar{t}t \; \bar{q}\bar{q}$			
33	$gg o \bar{t}t \ g_{ m DK}$			
34	$\bar{q}q \to \bar{t}t \ g_{\rm DK}$			
35	$qg \to \bar{t}t \ q \ g_{\rm DK}$			
36	$\bar{q}g \to \bar{t}t \; \bar{q} \; g_{\rm DK}$			
37	$gg \to \bar{t}t \ g \ g_{\rm DK}$			
38	$\bar{q}q \to \bar{t}t \ g \ g_{\rm DK}$			

nGlyRad for confib. H not well checked

