fastNLO scenario overview

scenario name	arXiv	Collab	observable	description	variants	theory	status	NObs	Ndim [1]	scales	NxBin	NScaleBin	NScaleDim	INorm	author	precision	Giga-evts	works in v2	comment
Tevatron Run I																			
fnt1001	hep-ph/0102074	CDF	incl jet	ET (eta)	midp,rsep	LO,NLO,TrCr	CEDAR: I,U	33	2	0.25,0.5,1,2 ET	12,10	1	1	0	mw,tk	0.5%,0.3%		ok	
fnt1002	hep-ex/0011036	D0	incl jet	ET, eta	midp,rsep	LO,NLO,TrCr	CEDAR: I,U	90	2	0.25,0.5,1,2 ET	12,10	1	1	0	mw,tk	1%, 1%		ok	
fnt1003	hep-ex/0012013	CDF	dijet	ET, eta1,2	midp,rsep	LO, NLO	CEDAR: I,U	51	2	0.25,0.5,1,2 ET	12,12	1	1	0	mw	0.4%, 0.4%		ok	
fnt1004	hep-ex/0012046	D0	incl jet 630	ET (eta)	midp,rsep	LO,NLO,TrCr	CEDAR: I,U	20+20	2	0.25,0.5,1,2 ET	12,12	1	1	0	mw			ok	includes x-sect @630
fnt1005	hep-ex/0012046	D0	incl jet 630	ET (eta)	midp,rsep	LO,NLO,TrCr	CEDAR: U		2	0.25,0.5,1,2 ET	12	1	1	0	mw			2ok	weighted x-sect a:630, b:1800
fnt1006 xxx	PRL70:1376(1993)	CDF	incl jet 546	ET (eta)	midp,rsep	LO,NLO,TrCr			2	0.25,0.5,1,2 ET			1	0	mw				weighted x-sect a:546 b:1800
fnt1007	hep-ex/9912022	CDF	dijet	Mjj	midp,rsep	LO, NLO	CEDAR: I,U	18	1	0.25,0.5,1,2 ET	10	2	1	0	mw			ok	
fnt1008	hep-ex/0012046	D0	dijet	Mjj	midp,rsep	LO, NLO	CEDAR: I,U	15	3	0.25,0.5,1,2 ET	10	2	1	0	mw			ok	
fnt1009	hep-ex/0012046	D0	dijet	chi, Mjj	midp,rsep	LO, NLO	CEDAR: I	62	2	0.25,0.5,1,2 ET	12	2	1	1	mw			ok	
fnt1010	hep-ex/9609011	CDF	dijet	chi, Mjj	midp,rsep	LO, NLO	CEDAR: I	40	2	0.25,0.5,1,2 ET	12	2	1	1	mw			ok	
fnt1011	PRL70:1376(1993)	CDF	incl jet 546	ET (eta)	midp,rsep	LO,NLO,TrCr	CEDAR: I		2	0.25,0.5,1,2 ET			1	0	mw			ok	xsect @546
fnt1012	hep-ex/0012046	D0	dijet ratio	Mjj/eta	midp,rsep	LO, NLO			2	0.25,0.5,1,2 ET	10	2	1	0	mw				
fnt100a	as fnt200a-RunI	(D0)	incl jet	pT															single scale pT
Tevatron Run II																			
fnt2001-diff	hep-ex/0409040	D0	dijet	DPhi, pT	midp	LO, NLO	CEDAR: U	94	2	0.25,0.5,1,2 pT	12	2	1	0	mw,ok			eps	a
fnt2001-norm	hep-ex/0409040	D0	dijet	DPhi, pT	midp	LO, NLO	CEDAR: U	4	?1	0.25,0.5,1,2 pT	12	2	1	0	mw			ok	b
fnt2002	hep-ex/0512020	CDF	incl jet	pT (y)	midp,rsep	LO,NLO,TrCr	CEDAR: I,U		2	0.25,0.5,1,2 pT	12,10	1	1	0	tk			ok	
fnt2003	hep-ex/0512062	CDF	incl jet	pT (y)	kT	LO,NLO,TrCr	CEDAR: I,U		2	0.25,0.5,1,2 pT	12	1	1	0	mw			ok	
fnt2004	hep-ex/0701051	CDF	incl jet	pT, y	kT	LO,NLO,TrCr	CEDAR: I,U		2	0.25,0.5,1,2 pT	12		1	0	mw			ok	
fnt2005	hep-ex/0701051	CDF	incl jet	pT (y)	kT	LO,NLO,TrCr	CEDAR: I		2	0.25,0.5,1,2 pT	12		1	0	mw			ok	D=0.5 - too many y bins
fnt2006	hep-ex/0701051	CDF	incl jet	pT (y)	kT	LO,NLO,TrCr	CEDAR: I		2	0.25,0.5,1,2 pT	12		1	0	mw			ok	D=1.0 - too many y bins
fnt2007	hep-ex/0807.2204	CDF	incl jet	pT, y	midp,rsep	LO,NLO,TrCr	CEDAR: I		2	0.25,0.5,1,2 pT	12		1	0	mw			ok	
fnt2008	prel	CDF	dijet	Mjj	midp,rsep	LO, NLO	CEDAR: I		?	0.25,0.5,1,2 pT	10	2	1	0	mw			ok	
fnt2009	hep-ex/0802.2400	D0	incl jet	pT, y	midp, rsep	LO,NLO,TrCr	CEDAR: I,U	110	2	0.25,0.5,1,2pT	12	1	1	0	mw	typ. <0.1%		ok	
fnt2010	prel	D0	dijet	chi (Mjj)	midp,rsep	LO, NLO		120	2	0.25,0.5,1,2pT	12	2	1		mw			ok	
fnt2011	under construct.	D0	dijet	Mjj (ymax)	midp	LO, NLO		71	2	0.25,0.5,1,2pT	11	2	1		mw				better scale interpolation needed
fnt2012		D0	three-jet	M3j											mw				
fnt2013		D0	R3/2	pT											mw				
fnt200a	RunIIa -fine pT bins	D0																	
fnt2d0dij	internal 0.5% syst																		
fnt20xx	kT D-depend	CDF																	
fnr20xy	fnt20xx + cone																		
HERA 820GeV																			
fnh1001	hep-ex/0010054	H1	incl jet	ET, Q2	kT	LO, NLO	CEDAR: I,U			0.5,1,2 ET	20	2	-	0	tk			BnSt	
fnh1002	hep-ex/0208037	ZEUS	incl jet	ET, Q2	kT	LO, NLO	CEDAR: I,U			0.5,1,2 ET	20	2	-	0	mw			ok	fixed alpha_em
fnh1003	hep-ex/0206029	H1	incl jet	ET, Q2	kT	LO, NLO	CEDAR: I,U			0.5,1,2 ET		2	-	0	tk			ok	
fnh1004	hep-ex/0010054	H1	dijet	ET, Q2	kT	LO, NLO	CEDAR: I,U			0.5,1,2 ET	20	2	-	0	tk			ok	
fnh1005 zzz	hep-ex/0508055	H1	fwd jet		kT	LO, NLO	CEDAR: I			0.5,1,2 ET	30	4	-	0	tk			BnSt	
fnh1006 zzz	test	ZEUS	fwd jet		kT	LO, NLO	CEDAR: I			0.5,1,2 ET	20	4	-	0	tk			BnSt	
fnh1007 xxx	hep-ex/0608048	ZEUS	incl jet	ET, Q2	kT	LO, NLO				0.5,1,2 ET			-	0	mw				
HERA 920GeV																			
fnh2001	hep-ex/0608048	ZEUS	incl jet	ET, Q2	kT	LO, NLO	CEDAR: I,U			0.5,1,2 ET	12	3	-	0	mw			ok	fixed alpha_em
fnh2002 xxx	hep-ex/0701039	ZEUS	incl jet	(ET,D) (Q2,D)	kT	not yet							-						
fnh2003	hep-ex/07063722	H1	incl jet	ET, Q2	kT	LO, NLO	CEDAR: I,U			0.5,1,2 ET		4	-	0	tk				
RHIC																			
fnr0001		STAR	incl jet	pT (y)	kT	LO,NLO,TrCr	CEDAR: I,U			0.25,0.5,1,2 pT	12	1	1	0	mw			ok	
fnr0002		STAR	dijet	Mjj	midp	LO, NLO		10		0.25,0.,1,2 pT	12	2		0	mw	0,1%,0.2%	40G, 138G	ok	
LHC 14 TeV																			
fnl0001 xxx																			
fnl0002	CERN-LHCC-2006-021	CMS	incl. jets	pT, y	kT 1.0	LO,NLO			132	0.25,0.5,1,2 pT	12	1	1		kr				our kT
fnl0003		CMS	incl. jets	pT, y	midp 0.7	LO,NLO			132	0.25,0.5,1,2 pT	12	1	1		kr				ourMidPointCone
fnl0004	test	ATLAS	incl .jet	pT, y	kT	LO, NLO, TrCr	CEDAR: I			0.25,0.5,1,2pT			1		mw			ok	
fnl00xx	kT D-dep + AC																		
fnl00xy	normalization																		
fnl0007		CMS	incl. jets	pT, y	kT 0.6	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				our fixed kT

fnl0008		CMS	incl. jets	pT, y	fj SC 0.7	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				fastjet SISCone
fnl0009		CMS	incl. jets	pT, y	midp 0.7	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				our MidPointCone
fnl0010		CMS	incl. jets	pT, y	fj kT 0.6	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				fastjet kT
fnl0011		CMS	incl. jets	pT, y	fj MP 0.7	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				fastJet MidPointCone
fnl0017		CMS	incl. jets	pT, y	kT 0.4	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				our fixed kT
fnl0018		CMS	incl. jets	pT, y	fj SC 0.5	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				fastjet SISCone
fnl0019		CMS	incl. jets	pT, y	midp 0.5	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				our MidPointCone
fnl0020		CMS	incl. jets	pT, y	fj kT 0.4	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				fastjet kT
fnl0021		CMS	incl. jets	pT, y	fj MP 0.5	LO,NLO			161	0.25,0.5,1,2 pT	12	1	1		kr				fastJet MidPointCone
fnl0117		CMS	forward jets	pT, y	kT 0.4	LO,NLO			14	0.25,0.5,1,2 pT	12	1	1		kr				
fnl0118		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	12	1	1		kr				
fnl0118.x_06_2		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	6	1	1		kr				x bin precision series
fnl0118.x_24_2		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	24	1	1		kr				x bin precision series
fnl0118.x_48_2		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	48	1	1		kr				x bin precision series
fnl0118.x_12_1		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	12	1	1		kr				x weighting test, failed so far
fnl0217		CMS	forward jets	pT, eta	kT 0.4	LO,NLO			14	0.25,0.5,1,2 pT	12	1	1		kr				
fnl0218	CMS PAS FWD-08-001	CMS	forward jets	pT, eta	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	12	1	1		kr				
LHC 10 TeV																			
fnl1007		CMS	incl. jets	pT, y	kT 0.6	LO,NLO			152	0.25,0.5,1,2 pT	12	1	1		kr				
fnl1007.y_1_x_06_2		CMS	incl. jets	pT, y	kT 0.6	LO,NLO			34	0.25,0.5,1,2 pT	6	1	1		kr				x bin precision series
fnl1007.y_1_x_12_2		CMS	incl. jets	pT, y	kT 0.6	LO,NLO			34	0.25,0.5,1,2 pT	12	1	1		kr				x bin precision series
fnl1007.y_1_x_24_2		CMS	incl. jets	pT, y	kT 0.6	LO,NLO			34	0.25,0.5,1,2 pT	24	1	1		kr				x bin precision series
fnl1007.y_1_x_48_2		CMS	incl. jets	pT, y	kT 0.6	LO,NLO			34	0.25,0.5,1,2 pT	48	1	1		kr				x bin precision series
fnl1007.y_1_x_12_1		CMS	incl. jets	pT, y	kT 0.6	LO,NLO			34	0.25,0.5,1,2 pT	6	1	1		kr				x weighting test, failed so far
fnl1007.y_1_x_48_1		CMS	incl. jets	pT, y	kT 0.6	LO,NLO			34	0.25,0.5,1,2 pT	48	1	1		kr				x weighting test, failed so far
fnl1008		CMS	incl. jets	pT, y	fj SC 0.7	LO,NLO			152	0.25,0.5,1,2 pT	12	1	1		kr				fastjet SISCone
fnl1010		CMS	incl. jets	pT, y	fj kT 0.6	LO,NLO			152	0.25,0.5,1,2 pT	12	1	1		kr				fastjet kT
fnl1018		CMS	incl. jets	pT, y	fj SC 0.5	LO,NLO			152	0.25,0.5,1,2 pT	12	1	1		kr				fastjet SISCone
fnl1118		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	12	1	1		kr				
fnl1118.x_06_2		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	6	1	1		kr				x bin precision test
fnl1118.x_12_2		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	12	1	1		kr				x bin precision test
fnl1118.x_24_2		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	24	1	1		kr				x bin precision test
fnl1118.x_48_2		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	48	1	1		kr				x bin precision test
fnl1118.x_06_1		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	6	1	1		kr				x weighting test, failed so far
fnl1118.x_48_1		CMS	forward jets	pT, y	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	48	1	1		kr				x weighting test, failed so far
fnl1218		CMS	forward jets	pT, eta	fj SC 0.5	LO,NLO			14	0.25,0.5,1,2 pT	12	1	1		kr				

1. this is the formal No. of dimensions in which the observable is presented, even if one of the dimensions has only a single bin/range
--Markus.Wobisch Wed 06 Jun 2007 05:01:37 PM CDT