

# IHEP Diffractive group

<http://sirius.ihep.su/CMS/higgsdiff/diff.html>

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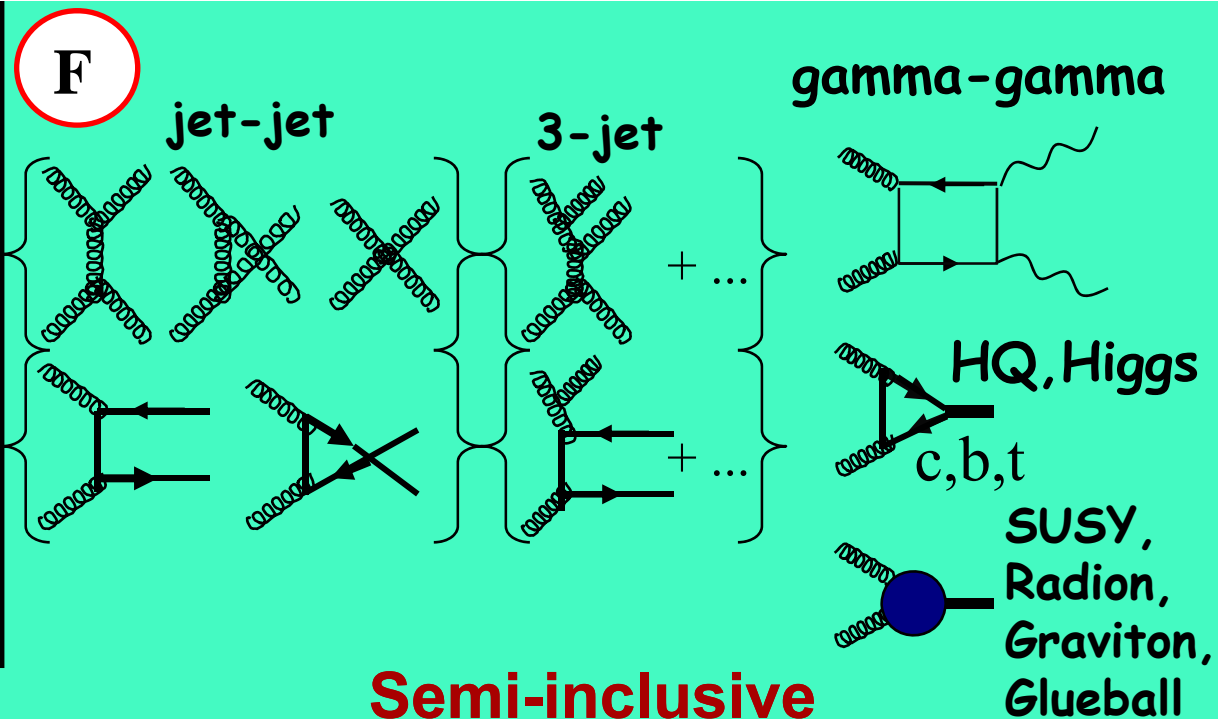


## EDDE update

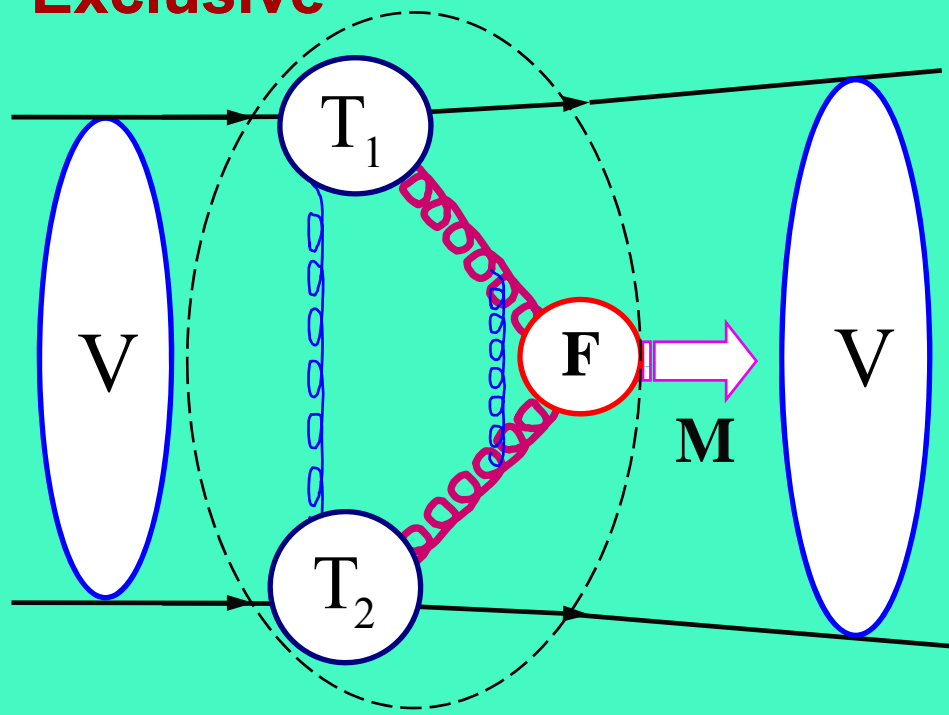
R. Ryutin

00000	0000	0000	00000
O	O O	O O	O O
00000	O O	O O	00000
O	O O	O O	O
00000	0000	0000	00000
X	O	I	V
		F	E
C	U	R	N
		A	S
L	B	C	
U		T	
S	L	I	
I	I		
	VEV		

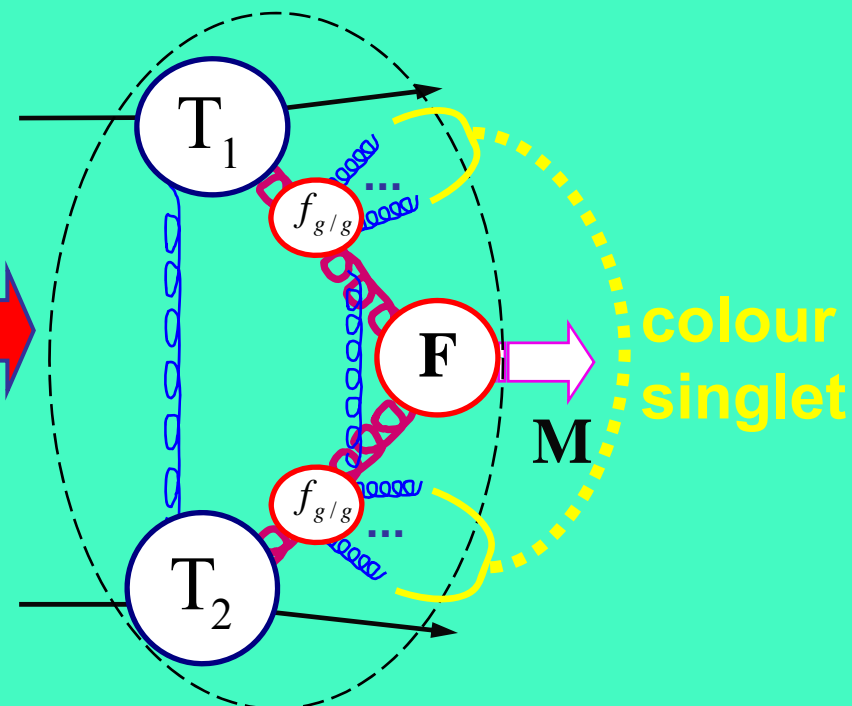
Version 2.1 (2007)



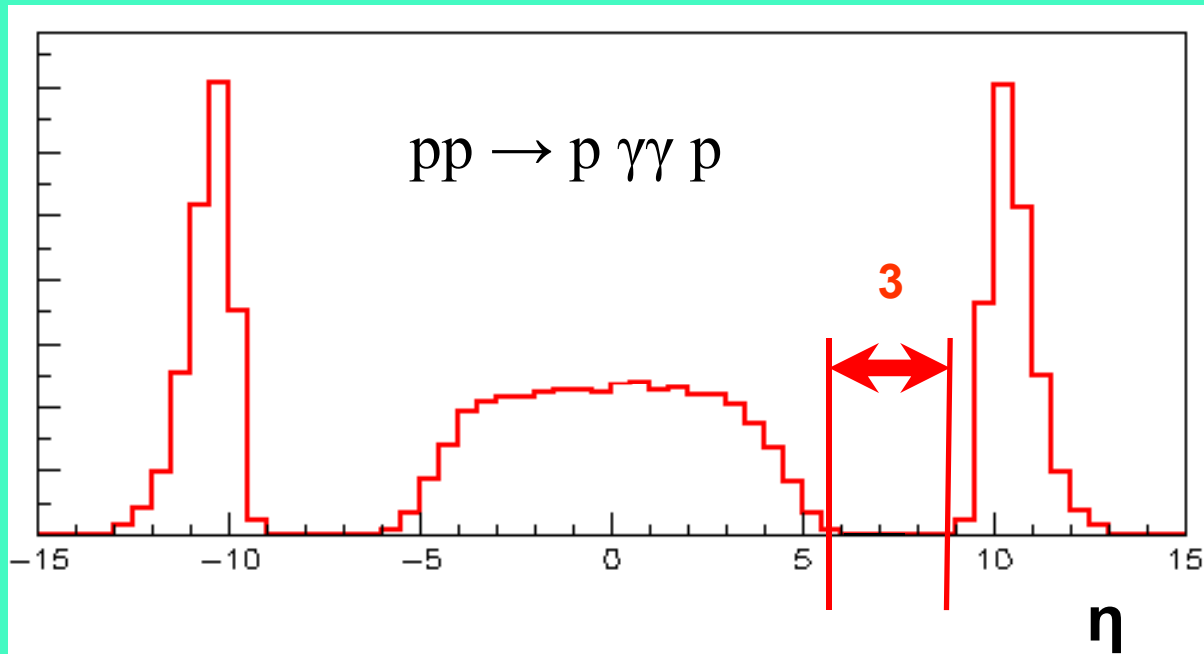
**Exclusive**



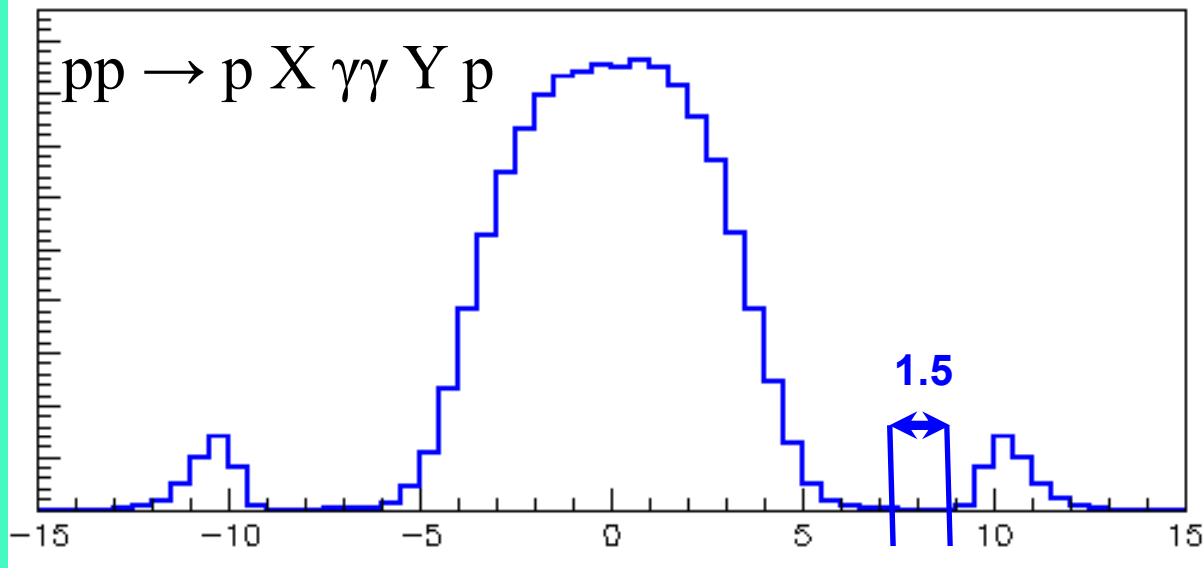
**Semi-inclusive**



# EDDE v2.1



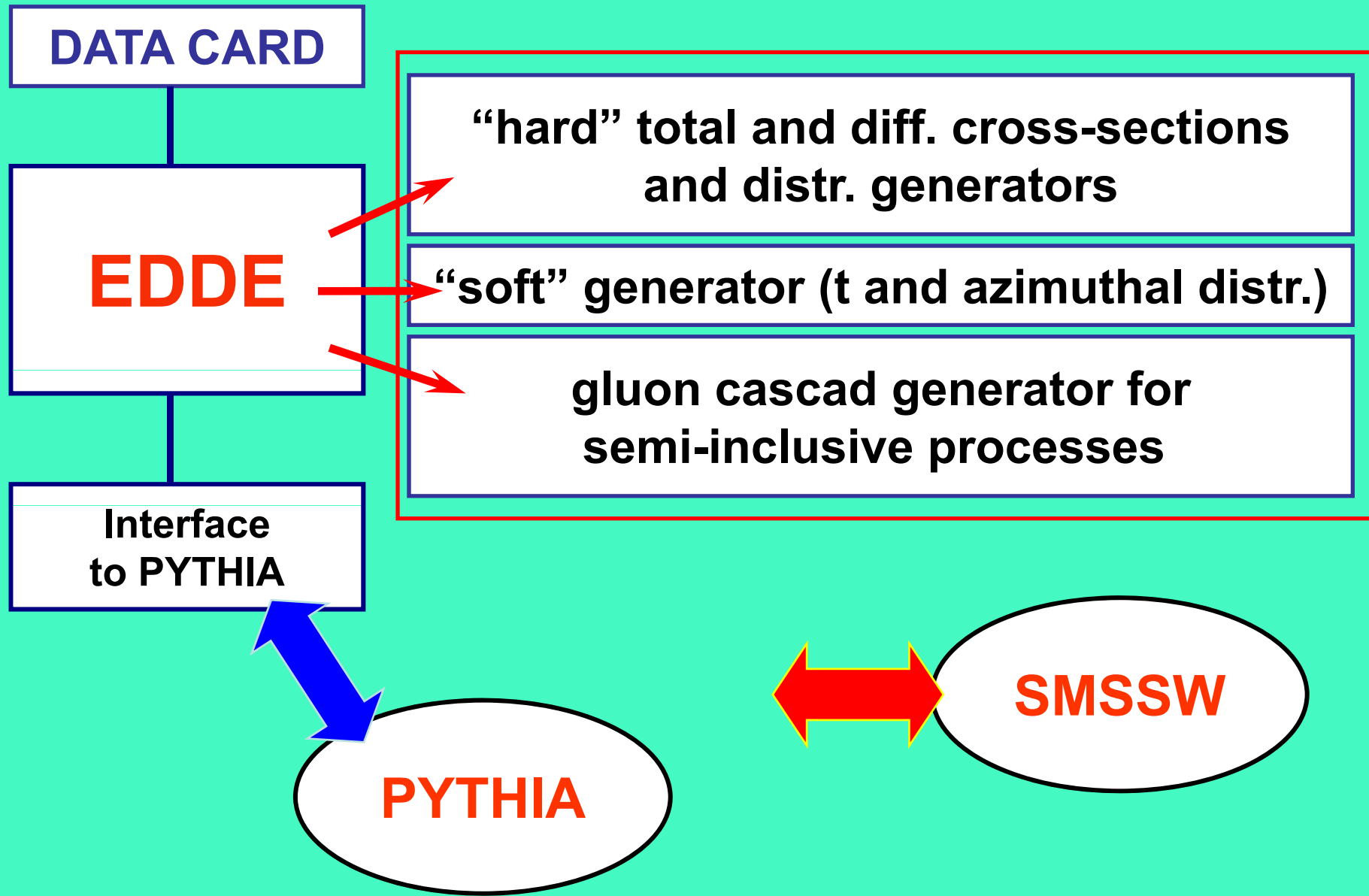
exclusive  
2 gamma



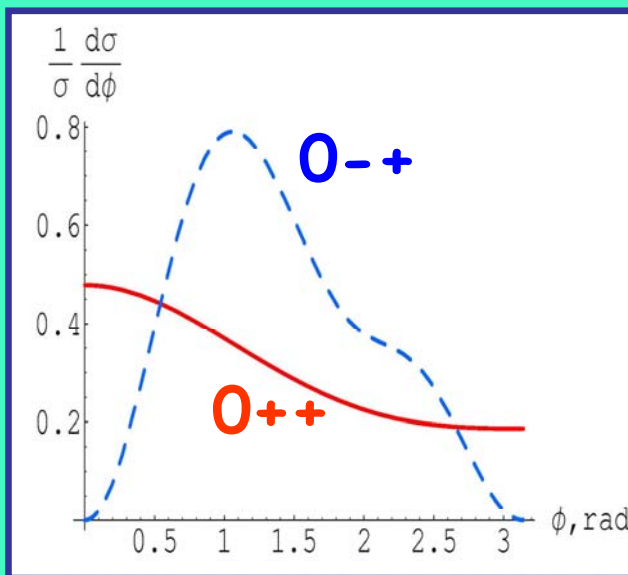
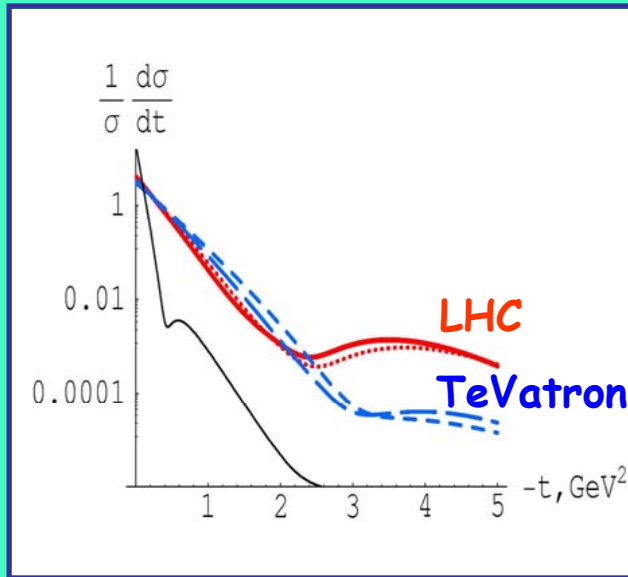
semi-inclusive  
2 gamma

rapidity gaps  
are partially filled  
with soft particles

# EDDE v2.1

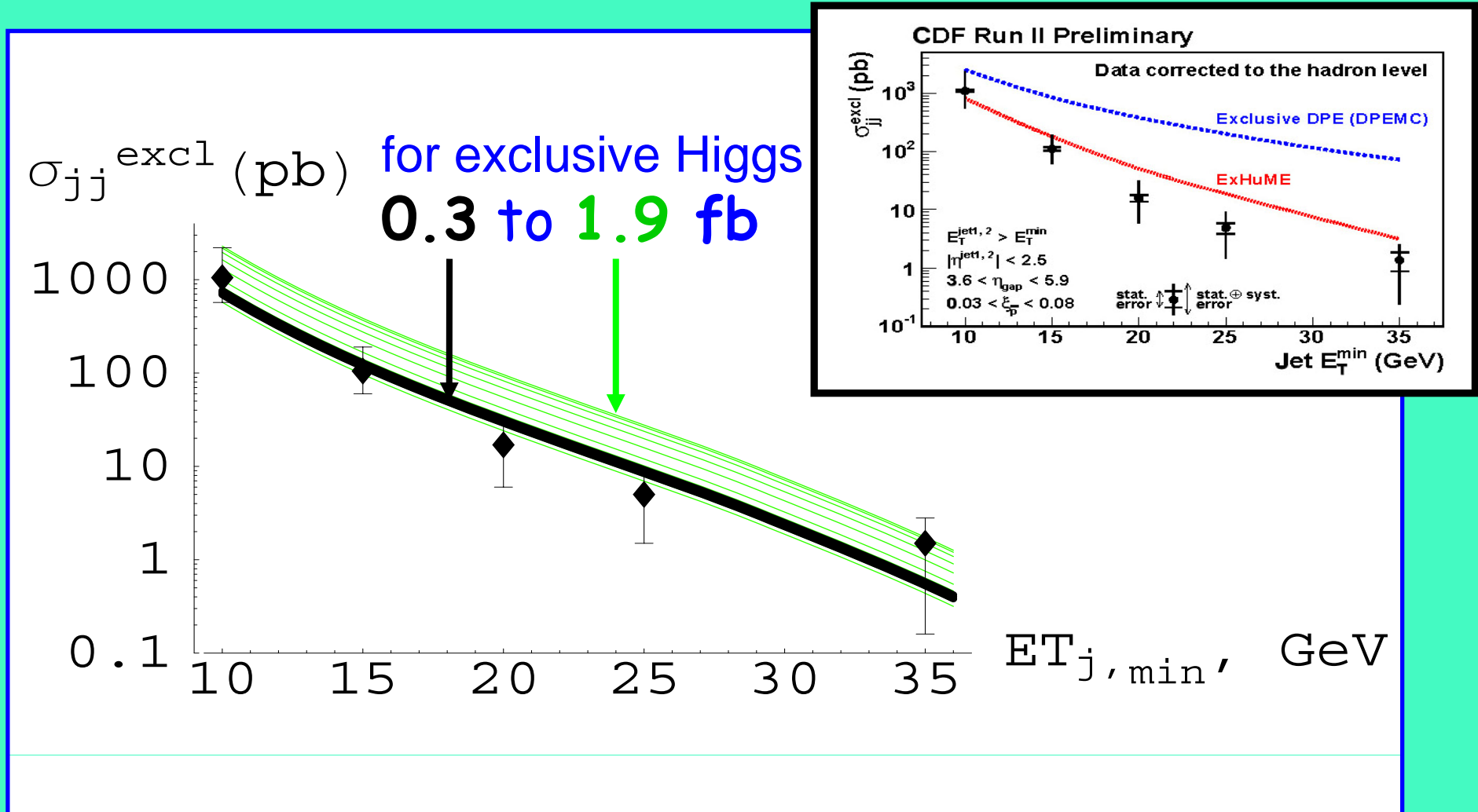


# EDDE v2.1 (distributions and cross-sections)



Process	"Hard" Scale	Cross section
pp→p+X H Y+p <i>+ex.</i>	120 GeV	1.1 ⊕ 0.8 fb
pp→p+X RS1 Y+p <i>+ex.</i>	~100 GeV	5-30 fb
pp→p+γγ+p	>5 GeV	308 fb
pp→p+X γγ Y+p	>5 GeV	115 fb
pp→p+gg+p	>25 GeV	0.25 nb
pp→p+X gg Y+p	>25 GeV	1 nb
pp→p+b $\bar{b}$ +p	>25 GeV	87 fb
pp→p+X b $\bar{b}$ Y+p	>25 GeV	5 pb
pp→p+b $\bar{b}$ g+p	>25 GeV	30 fb
pp→p+ggg+p	>25 GeV	0.17 nb
pp→p+Chi_b+p	10 GeV	1 nb
pp→p+Chi_c+p	3.5 GeV	1000 nb

# EDDE v2.1 (CDF fits)



Data from CDF (2006)  
 on exclusive dijet  
 production and model curves

# EDDE v2.1 (perspectives)

## Inclusive DPE

