No.

Date

	o kinematics			
	7 , 1			
		6 .		
<u> </u>	2	7 557		
	LAB	2-RES7		
	-0~×/2	_ 0~0		
	In LAB	7		
	Similar			
	mogrents			
		- a soft porticle going away		
		e a hard particle		
	single jet (:)	on the one and dir.		
	9)	"partially"		
		, – ()		
	· In to Wbor jib			
	b ov	l.,,		
	"foward" quark.			
	•	<u> </u>		
	top-PEST			
		•		
	·			

$0 \sim 0 \Rightarrow \text{boosted } W : \text{tagged}$ soft b : fail to see	=> t-not tagged (X)
$\begin{array}{c c} (2) & b & & 0 & w \sim \pi \Rightarrow \text{hard } b \\ \hline & & & \text{soft } w \rightarrow 2 \text{ hard } j \end{array}$	go away =
$3 \frac{1}{\sqrt{2}} \frac{1}{$	1) Stuis
lets = Discriminate QCD v.s.	'particl' top!
· N ^{sub} _{jet} + 3	
	· · · · · · · · · · · · · · · · · · ·
,	

No. Date

stagging Algorithm min TI(B) = 1 Ptot i pet

nmin I Pri Oi Sor all smell O

T,(1): It is chosen as It // 1P, most energetic

Ti(2): in the namow-jet limit. M/ jet-axis itself

QCD (~less hard split)

TOP ~ hard pla

lean ~ O(1)

-> n, ~// n2

DN1-2 - jet lear

N-subjettiness the Trik mindring = Prik Roris

2 Pris Prik Roris

2 Pris Roris

11124441	· History of tasse	~	
Seymour	1994: "tree-shape Rт w. R=1,0	dustering" in jet ID [f	efore: put all in a cone]
· · · · · · · · · · · · · · · · · ·	W-tagging	*Jz two hardest subjet	
	00-0	Doi (0,81, D12	>0.28, Ej>17au
		to satisfy	m12-mu/c/0
	Not seed	in the presence of UE.	
-		· in the presence of UE. · How to suppress UE/	ρυ?
Butterworth Cox Forshaw	2002:	• tt-pair : SEMI-LEPT.	[1870U 150 GU
		j j	huntad
· · · · · · · · · · · · · · · · · · ·		triggers l	
		[Nob-tag]	$\frac{\chi^2 - fit}{M_{jl\nu}} = M_{jj} - M_{jl\nu}$
			Mij = Mw .
···			
. 			

1011.2268	0 N-subjettiness		
	$T_{N} = \frac{1}{d_{0}} \sum_{\substack{k:jet \\ \text{constituent}}} \min \left(d(\mathcal{E}_{i}, P_{k}), \cdots, d(\mathcal{E}_{N}, P_{k}) \right)$ $\cdot \left(d: \text{distance measur} \right)$		
	Example: $d(g_i, p_k) = P_T(k) \cdot [g_T(i)]^{\alpha} [DR_{i,k}]^{\beta}$ $d_0 = \max_{i=1N} \{(g_T(i))^{\alpha}\} (R_0)^{\beta} \sum_{k} P_T(k)$		
	• IR-Safe \Leftarrow d linear in $P_{7}(k)$ • Collinear-safe \Leftarrow ', $\land B \ge 0$		
	Determine {fi} can be chosen s.t. minimizing TN - computationally distinct can be (practically) chosen as jets by exclusive-kr algorithm.		
	* · · · · · · · · · · · · · · · · · · ·		