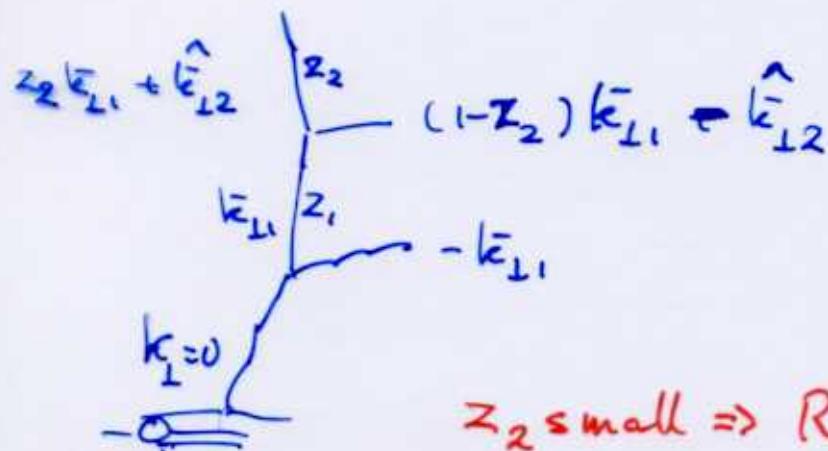


Recoil problems

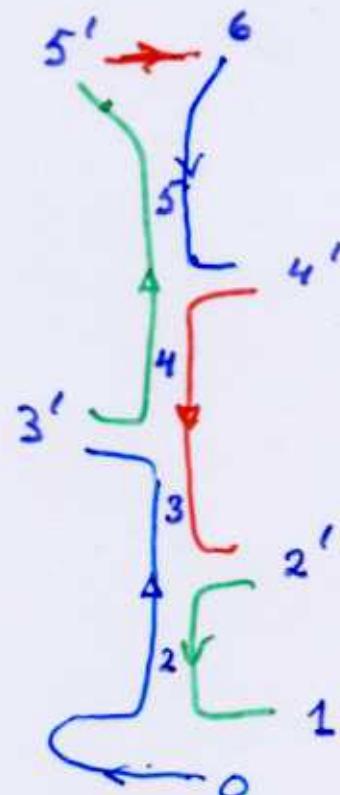
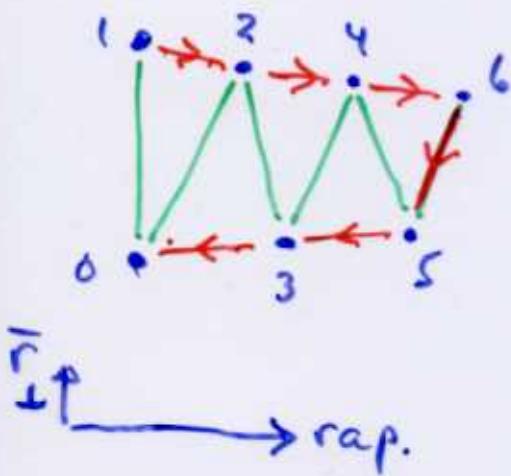
Gösta Gustafson

Standard DGLAP evolution



z_2 small \Rightarrow Recoil absorbed by
the next gluon in rapidity order.

Dipole picture



2 & 4 recoiling against each other
3 & 5 " "

The recoils can also be kept inside
a colour line.

2.

Can this be observed experimentally?

Trigger on a high p_T particle

Look for associated particles

Study same side
 opposite side

$$\frac{d\sigma}{dp_{\perp||}} \Big|_{\text{same side}} / \frac{d\sigma}{dp_{\perp||}} \Big|_{\text{opposite side}}$$

Tobias Toll

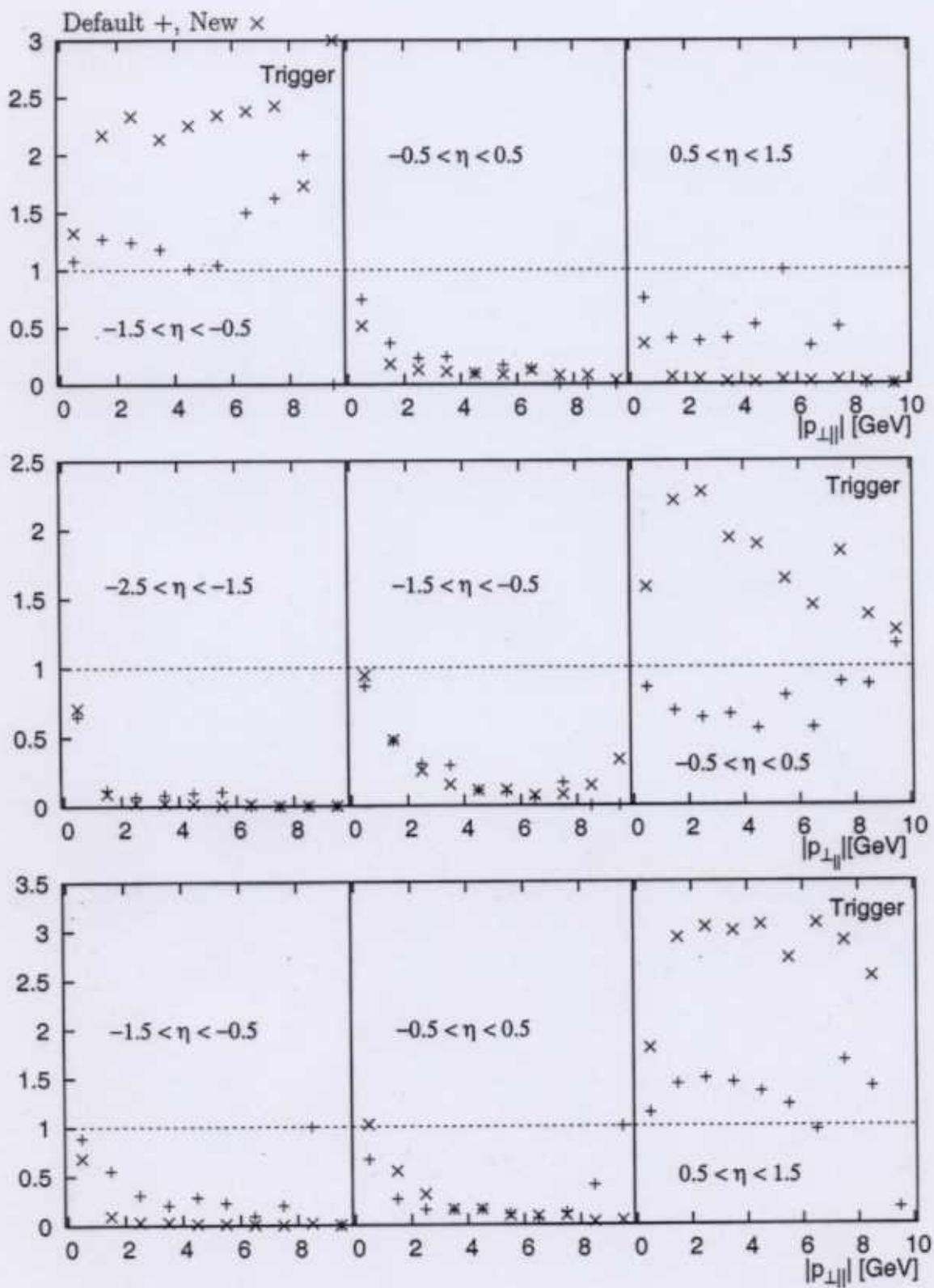


Figure 21: Comparisons between ARIADNE run on default and ARIADNE with the BGF dipoles separated. The trigger lies in the bin of the plot marked with 'Trigger' in each row and in the region where $4 < p_{\perp,\text{trigger}} < 10$. The diagrams show the $d\sigma/dpt$ component of a Hadron parallel to the trigger divided by the antiparallel cross-section.