c

Kees Thesis

- p. 6: billion collision events per second recorded? A bit confusing
- Can have full stop (i.e., period) in footnotes
- Footnotes 2 & 3 in Chap. 1?
- Need a bit more in Eq. 1.5: the equation of motion ignoring charge density
- barn unit is area, p. 17
- Footnote 11, p. 21: people are preparing for 150+ collisions per bunch crossing!
- top of p. 23: why not enlightening? One can always learn from any calculation!
- Eq. 1.22: what is $\otimes$ symbol?
- p. 25: not a "constant distribution"; a δ-function distribution (always the same measured value)
- Placement of Fig. 2.1 is unfortunate (use t! or h! tags)
- Need a $-$ sign in Eq. 2.1
- Eq. 2.40: just ignoring τ-functions? restricting to $p>0$?
- p. 41: resolved vs. unresolved: good!
- footnote 2, p. 42: just say it's the first approximation and one can consider more resolved gluons but that is beyond what is needed here
- Section 3.2: can also have emission collinear to resolved gluon
- In Eq. 3.22, there is no resolved gluon yet, that happens with refactorization of soft function and then a gluon jet function is resolved

- what is Eq. 4.4?
- p. 53 cites: the Frye paper appendices has them

TODO

- p. 60: why is the anomalous dimension the coefficient of $2/\varepsilon$?
- Why is Eq. 4.94 the lowest order renormalization group equation?
- Eq. 4.102: Don't forget the $\mathcal{O}(a_s^0)$ term: which is just 1!
- Footnote 9, p. 62: update/remove

TODO

- Title? Why TBD? :