



Accident Data: Side Impacts with Poles

Informal Group on a Pole Side Impact GTR (PSI) June 2011

**Tobias Langner / Claus Pastor
Federal Highway Research Institute
Section: Passive Vehicle Safety and Biomechanics**



Data Sources:

In-Depth-Data : **GIDAS**

Police-Data : **German National Accident Data**

Volumes 2000 to 2009

Statistical Method

-> Merging data sources by “post stratification” (raking)

Detail for the experts:

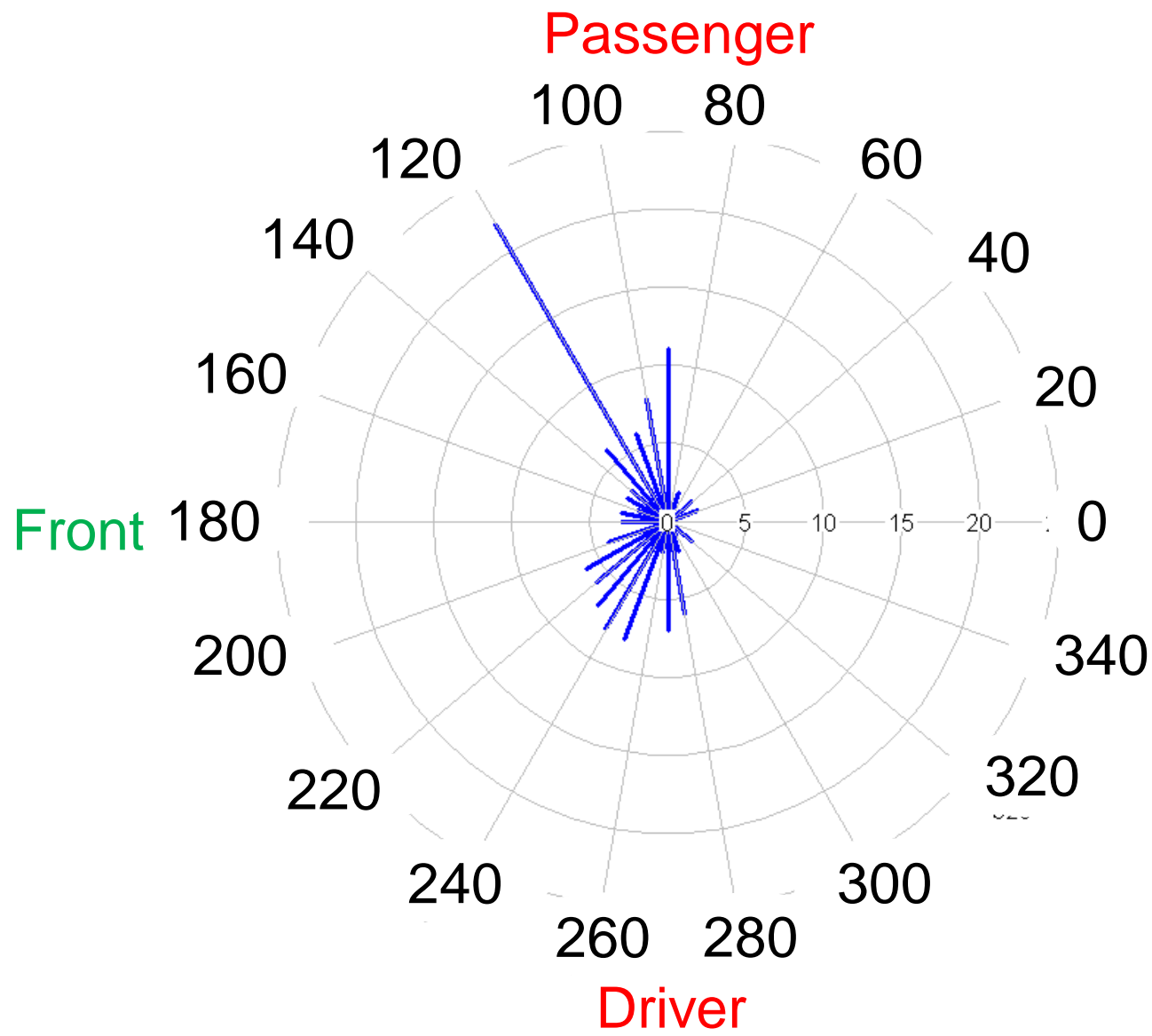
Post stratification “raking” was done by using the following marginal distributions

Cross tabulations of

- Accident with pole impact + accident side (rural or urban) + accident severity
- Accident with pole impact + type of accident
- Accident severity + kind of accident

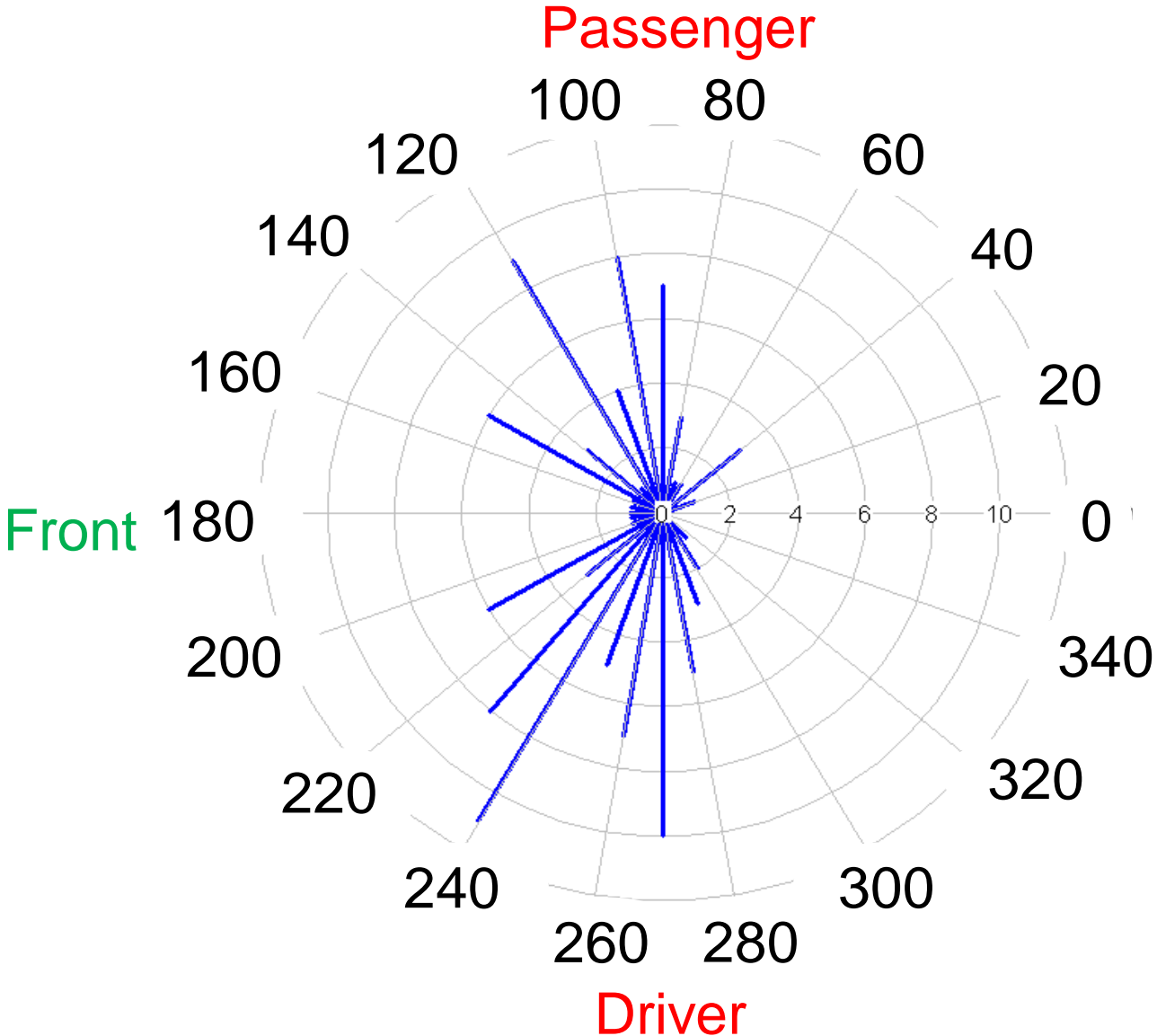


Slight injuries



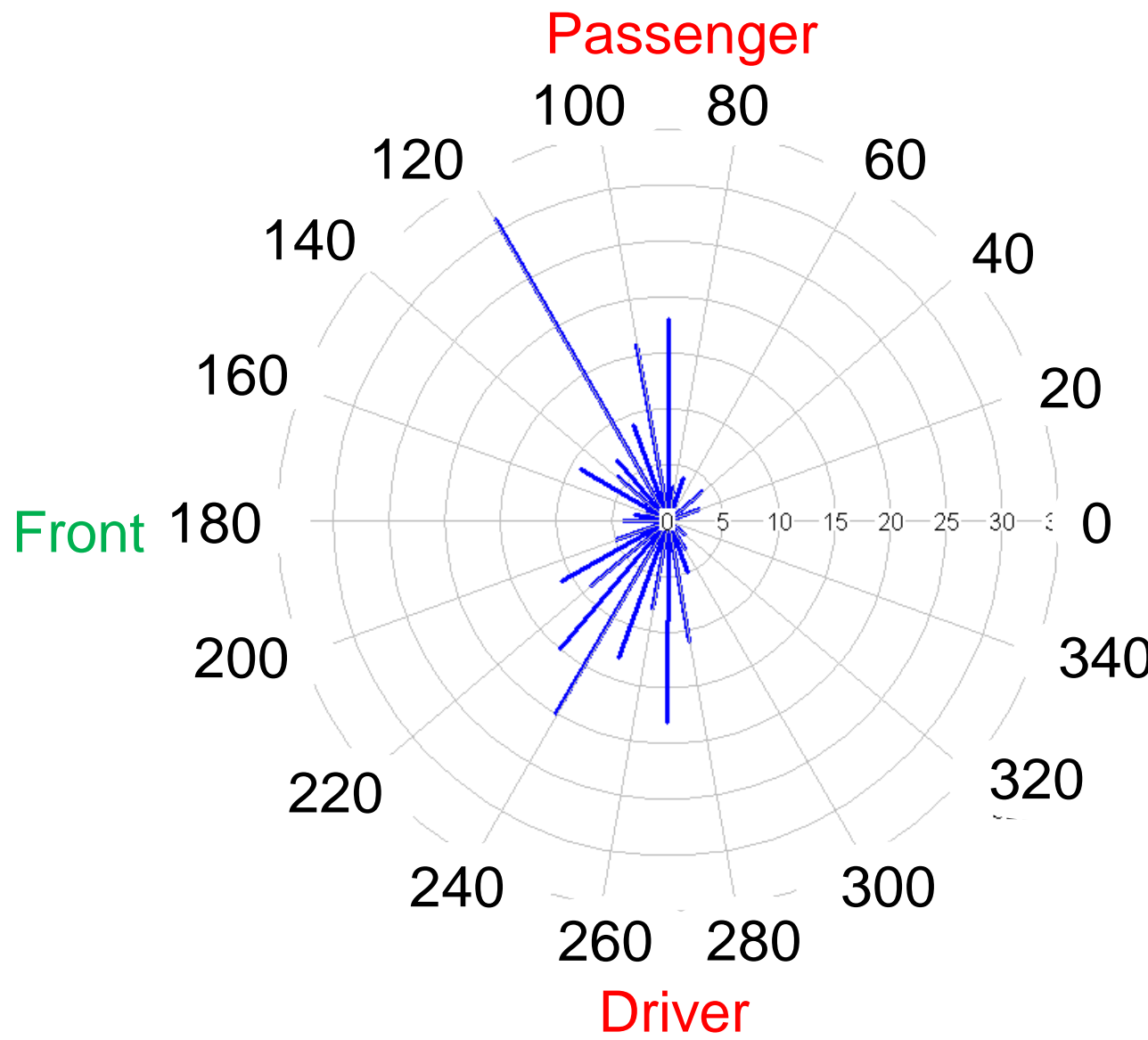


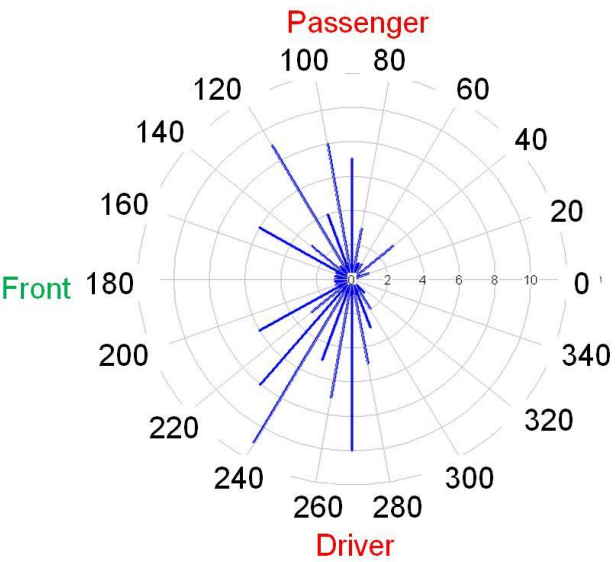
Severe and fatal injuries





All injuries





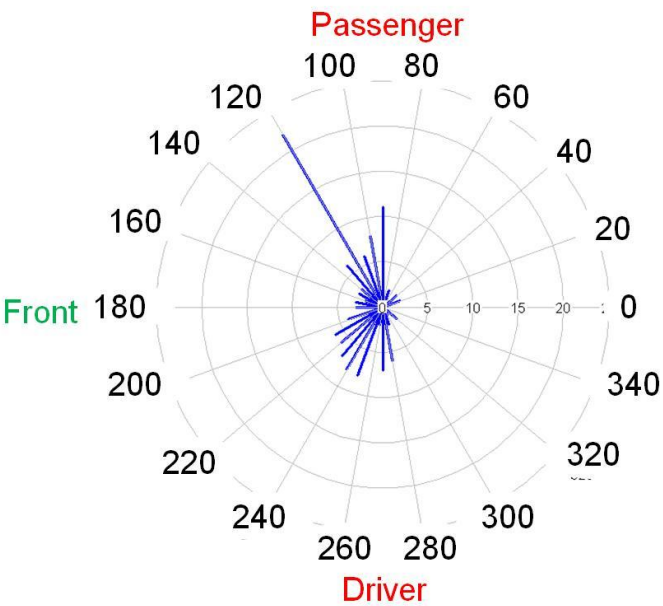
Conclusions:

Severe injuries occur most frequent oblique from the driver side



Conclusions:

Slight injuries occur most frequent oblique from the passenger side





Thank you for your attention