Hi Christian,

dip angle (as used by the Riemann track finder) and polar angle (Theta, as used by
PndFlatGen and probably other event generators) as they are implemented at the moment, are
not the same.
Currently, _dip stores the cosine of the angle between track and xy-plane. Due to this
operation the sign is lost (one can argue if "lost" is strictly correct as Sebastian already pointed
out that the actual direction of a track is ambiguous unless additional information is present),
but I assume its range should be -90°..90° in order to cover the full polar angle range of
Theta = 180°..0°.

Best regards,

Marius