

CHAPTER 1

Notations

Citations are hyperlinked to the Bibliography at the end of this work. They are numerated in squared brackets.

Abbreviations are given in small-caps. E.g sm instead of SM.

Every abbreviation is indexed at the end of this thesis.

Important formulas are emphasised by a grey background.

We make use of the abbreviations eq. and fig. for referencing equations and figures.

The four dimensional metric we use is defined as $g_{\mu\nu} = \text{diag}(1, -1, -1, -1)$.

Closed contour integrals are denoted by \oint and executed counter-clockwise.

$\log x$ represents the natural logarithm of x .