

Einführung in die T0-Theorie

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2025

Kapitel 1

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Einleitung

Dieses Buch präsentiert den aktuellen Stand des T0-Zeit-Masse-Dualitäts-Frameworks und seiner Anwendungen auf Teilchenmassen, fundamentale Konstanten, Quantenmechanik, Gravitation und Kosmologie.

Der Hauptteil des Buches besteht aus einer Sammlung von Kern-T0-Dokumenten. Diese Kapitel spiegeln das gegenwärtige Verständnis der Theorie und ihrer quantitativen Konsequenzen wider. Wo immer möglich, wurde das Material reorganisiert und vereinheitlicht, sodass die Struktur der Theorie so transparent wie möglich wird.

Am Ende des Buches sind mehrere ältere Dokumente in einem Anhang enthalten. Diese Texte repräsentieren frühere Entwicklungsstadien des T0-Frameworks. Sie wurden nicht entfernt, da sie die Evolution der Ideen und die Verfeinerung der Formeln sichtbar machen. In vielen Fällen kann man sehen, wie Näherungen verbessert wurden, wie Spezialfälle verallgemeinert wurden und wie neue empirische Daten halfen, frühere Argumente zu schärfen oder zu korrigieren.

Die „Live“-Version der Theorie wird in einem öffentlichen GitHub-Repository gepflegt:

<https://github.com/jpascher/T0-Time-Mass-Duality>

Die LaTeX-Quelltexte der Kapitel in diesem Buch stammen aus diesem Repository. Wenn konzeptionelle oder numerische Fehler gefunden werden, werden sie dort zuerst korrigiert. Das bedeutet, dass die PDF-Version des Buches, die Sie gerade lesen, eine Momentaufnahme eines kontinuierlich weiterentwickelten Projekts ist. Für die aktuellste Version der Dokumente, einschließlich neuer Anhänge oder Korrekturen, sollte das GitHub-Repository immer als primäre Referenz betrachtet werden.

Die Absicht dieser Zusammenstellung ist zweifach:

- einen kohärenten, lesbaren Weg durch die Kernideen und Ergebnisse des T0-Frameworks zu bieten;
- im Anhang die historische Entwicklung dieser Ideen zu dokumentieren, einschließlich Fehlstarts, Zwischenformulierungen und früher Anpassungen an experimentelle Daten.

Leser, die hauptsächlich an der aktuellen Formulierung der Theorie interessiert sind, können sich auf die Kernkapitel konzentrieren. Leser, die auch an der Argumentation und dem Versuch-und-Irrtum-Prozess hinter der Theorie interessiert sind, sind eingeladen, das Anhangmaterial parallel zu studieren.

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