

TFPT 4.5 Paper Series Index

Split by Burden of Proof

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Abstract

This index records the dedicated TFPT 4.5 paper split. The organizing principle is not topical coverage but review burden: each document groups claims that need the same type of scrutiny and keeps speculative or downstream risks from contaminating the primitive core.

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1 Documents

File	Title	Role
00_orientation	TFPT Orientation Map	Thin entry document and dependency map.
01_boundary	Boundary Polarization and the Primitive Kernel of TFPT	Primitive boundary kernel.
02_carrier_rigidity	Carrier Rigidity, Hypercharge, and the Standard Model Packet	Carrier theorem and SM packet.
03_electromagnetic	Electromagnetic Flavor Transport and Precision	Precision prediction and no-knobs audit.
04_admissibility	Admissibility, Strong CP, and Nonperturbative QFT Closure	Conditional QFT closure layer.
05_geometric	Geometric Hodge Glossaries, Dimensionless Metrology	Boundary-normalized metrology.
06_cosmology	Cosmology Interfaces of the TFPT Closed Branch	Downstream cosmology interfaces and CMB targets.
technical_col	Technical Companion to TFPT	Long toolbox, conventions, ledgers, continuations.
tfpt45_theory	TFPT-Von Boundary Struktur zu beobachtbarer Realität	Vector status map of the staged derivation chain.

2 Mathematical Dependency Order

1. Paper 1: boundary primitive kernel.
2. Paper 2: carrier rigidity and Standard-Model packet.
3. Paper 3: electromagnetic and flavor readouts.
4. Paper 4: admissibility, strong CP, positivity, OS/local-net/scattering closure.
5. Paper 5: geometric branch and dimensionless metrology.
6. Paper 6: downstream cosmology interfaces.

3 Recommended Public Order

1. Paper 0 as public orientation.
2. Paper 2 as first visible core result.
3. Paper 1 as formal foundation backbone.
4. Paper 3 as prediction paper.
5. Papers 4 and 5 as analytic and metrological stabilization.
6. Paper 6 as downstream expansion.

4 Per-Paper Front-Box Rule

Every paper begins with the same four-part box:

1. Inputs from previous papers.

2. New theorem contribution.
3. Not claimed here.
4. Falsification or audit surface.

This is a deliberate anti-evasion device: each document states how it can fail. Each paper also ends with a short “Not used here” list so that excluded material does not re-enter through a back-door support appendix.

5 Global Exclusion Discipline

Paper	Explicit exclusions
Paper 1	Carrier, SM group, α , flavor, gravity, cosmology, E8.
Paper 2	Exact α , CKM, PMNS, masses, OS reconstruction, cosmology, E8.
Paper 3	Full QFT closure, gravity, CMB, E8, large mass tables.
Paper 4	α detail calculation, CMB, E8, full empirical tables.
Paper 5	Late-time H_0 , CMB, black holes, horizons, E8 stage atlas, astrophysical bursts.
Paper 6	Carrier proofs, full α derivation, QFT closure proofs, SM packet proof.

6 Source

All documents in this folder are based on `../tfpt-42.tex`. The dedicated papers are intentionally clean splits: they keep their own primary source body and refer cross-paper material through dependency boxes. The Technical Companion is the designated home for full appendix-level ballast, extended ledgers, optional continuations, E8 grammar, horizons, record algebra, and transient channels.