

Appendix

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**Matter CANNOT be
temporally past-infinite**

THESIS: Matter had a Beginning

LOGIC.

F1. It is **impossible to cross an infinity**.

--- temporal, causal, contingent

.

D1. Therefore, **matter CANNOT be past-infinite**.

--- if it were past infinite it would have to cross an infinity of past moments to get to the present moment.

--- that is impossible.

C1. Therefore, matter cannot be past infinite.

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C2. Therefore, matter had a beginning in time.

THESIS: Matter is Dynamic and had a Beginning

LOGIC.

F1. It is **impossible to cross an infinity**.

--- temporal, causal, contingent

F2. Matter is by its very nature (and Heisenberg Uncertainty principle) always Dynamic and never Static (at the most fundamental levels).

D1. Therefore, **matter CANNOT be past-infinite**.

--- if it were past infinite it would have to cross an infinity of past moments (or dynamic events) to get to the present moment.

--- that is impossible.

C1. Therefore, matter cannot be past infinite.

C2. Therefore, matter had a beginning in time.