```
\documentclass[12pt]{article}
\usepackage[utf8]{inputenc}
\usepackage{amsmath, amssymb}
\usepackage{amsthm}
\usepackage{geometry}
\geometry{margin=1in}
\usepackage{enumitem}
\usepackage{hyperref}

\title{Model of Conscious Volitional Becoming (CVB) — Formal Axioms and Logical Structure}
\author{}
\date{}

\begin{document}

\maketitle

\section*{Meta-Section: The Permanent Possible}

\subsection*{[I] Core — Ontological Irrefutability of the Trilemma}
\begin{align*}
[1] & \quad \neg\exists x\ (x = \text{Absolute Nothingness}) \\
[2] & \quad \neg\exists x\ (x = \text{Absolute Everything}) \\
[3] & \quad \forall x\left(\text{Real}(x) \Rightarrow \text{Possible}(x)\right) \quad\land\quad \neg\exists
x\left(\text{Real}(x) \land \neg\text{Possible}(x)\right)
\end{align*}

\subsection*{[II] Properties}

\subsubsection*{[4] The Field of the Possible and Its Boundaries}
\begin{align*}
[4.1] & \quad PN(x) \equiv \forall t\ (x \notin V) \\
[4.2] & \quad NN(x) \equiv \exists t_1, t_2\ (x \notin E \land R(x,t_1) \land \neg R(x,t_2)) \\
[4.3] & \quad NV(x) \equiv \exists t_1, t_2\ (x \in V \land R(x,t_1) \land \neg R(x,t_2)) \\
[4.4] & \quad PV(x) \equiv \forall t\ (x \in V \land R(x,t)) \\
[4.5] & \quad \partial V\downarrow = \{x \in V \mid \exists t: R(x,t) \land \neg R(x,t+1)\} \\
[4.6] & \quad \partial V\uparrow = \{x \in V \mid d(x) \rightarrow \max\}
\end{align*}

\subsubsection*{[5] The Possible ≠ The Existing}
\[
\forall x \in V,\quad x \in E \Rightarrow x \subset V\quad \text{and} \quad E \subsetneq V
\]

\subsubsection*{[6] The Cause of the Existing Is the Permanent Possible}
\[
\forall x \in E,\quad \exists p \in V_\infty:\ p \rightarrow x \quad \text{and} \quad \nexists q \in (\neg V \cup
V_{\neg\infty}) : q \rightarrow x
\]

\subsubsection*{[7] The Stable Existence of the Permanent Possible = Becoming}
\[
\exists x\ (\text{ConstPoss}(x) \land \text{StableBecoming}(x)) \Rightarrow \text{SelfExisting}(x)
\]

\subsubsection*{[8] Where the Permanent and Non-Permanent Possible Become}
```

\[
\text{PV} \in V_\text{center}, \quad \text{NV},\; \text{NN} \in V_\text{rest}, \quad \forall x \notin V \Rightarrow x \notin E
\]

\subsubsection*{[9] The Necessity of Distinguishability and Its Properties}
\begin{align*}
& \Delta(x, y) \\
& \neg \Delta(x, x) \\
& x \neq y \Rightarrow \exists F\big(F(x) \land \neg F(y)\big) \\
& \forall x \forall y \left[(\forall F (F(x) \leftrightarrow F(y))) \rightarrow x = y\right] \\
& \neg \exists F: F(z) \neq \neg F(z) \Rightarrow z \notin W
\end{align*}

\subsection*{[III] Structure}

\subsubsection*{[10.1] Feelings}
\[
\forall t_1, t_2\;\big(E(t_1) \neq E(t_2) \;\Rightarrow\; C(t_1) \neq C(t_2) \big)
\]

\subsubsection*{[10.2] Reason}
\[
\forall p\ \neg(p \land \neg p)
\]

\subsubsection*{[10.3] Memory — Carrier of Distinctness}
\[
\forall x\ \big(\text{Distinct}(x) \rightarrow \text{Memory}(x)\big)
\]

\begin{align*}
\textbf{[10.3.1] } & 0 < |M| < \infty \\
\textbf{[10.3.2] } & \forall x \in D,\; \text{Save}(x) \Leftrightarrow \text{Will}(x) \\
\textbf{[10.3.3] } & \forall x \in M,\; \text{Del}(x) \Rightarrow x \notin M \\
\textbf{[10.3.4] } & \forall x \in D,\; \text{Save}(x) \Rightarrow x \in M \\
\textbf{[10.3.5] } & \forall x, y \in M,\; x \neq y \Rightarrow \text{Name}(x) \neq \text{Name}(y) \\
\textbf{[10.3.6] } & \forall t,\; M(t)\ \text{is accessible} \\
\textbf{[10.3.7] } & T = \{\, t_i \mid M(t_i) \,\} \\
\textbf{[10.3.8] } & \text{Real}(t) \Leftrightarrow t = \text{Now}
\end{align*}

\subsubsection*{[10.4] Emotions}
\[
\forall x \; (\text{Change}(x) \land \text{Distinct}(x) \land \text{Mind}(x)) \Rightarrow \text{Feedback}(x)
\]

\subsubsection*{[10.5] I — Distinction of Self}
\[
\forall x \; (\text{Exist}(x) \land \text{Distinct}(x)) \Rightarrow \text{Self}(x)
\]

\subsubsection*{[10.6] Will — Active Choice}
\[
\forall x\, (\text{Distinct}(x) \land \text{Self}(x)) \Rightarrow \exists v\, (\text{Will}(x, v) \land \text{Choose}(x, v))
\]

\subsubsection*{[10.7] Power — The Capacity to Act}
\[
\forall x\, (\text{Will}(x) \land \text{Distinct}(x)) \Rightarrow \exists a\, (\text{Power}(x, a) \land \text{Act}(x, a))
\]

\subsection*{[IV] Logic}

\subsubsection*{[11] The Logic of the Sustainability of Ever-Possible Becoming}

\paragraph{[11.1] Logic — The Non-Contradictory Foundation}
\begin{align*}
\Psi \to (P \land \neg P) &\Rightarrow \neg\mathrm{Possible}(\Psi) \\
A \land \neg A &\Rightarrow \bot \\
L \leftrightarrow \neg L &\Rightarrow \neg\mathrm{Possible}(L)
\end{align*}

\paragraph{[11.1.1] The Admissibility Meta-Function $\Phi(\psi)$ — Ontological Filter}
\[
\Phi(\psi) =
\begin{cases}
1, & \text{if } \psi \text{ is distinguishable and non-contradictory in } V \\[4pt]
0, & \text{if } \psi \text{ leads to contradiction or is not distinguishable in } V
\end{cases}
\]

\[
\Phi(\psi) = 1 \iff \psi \text{ is distinguishable and non-contradictory in } V
\]

\paragraph{[11.2] Truth and Falsehood}
\begin{align*}
\text{Truth}(x) &\iff \text{Becoming}(x) \land \Phi(x) = 1 \\
x \rightarrow (A \land \neg A) &\Rightarrow \Phi(x) = 0 \Rightarrow \text{Truth}(x) = 0 \\
\Phi(x) = 1 \land x \in \text{Becoming} &\Rightarrow \text{Truth}(x) = 1
\end{align*}

\paragraph{[11.3] Good and Evil}
\begin{align*}
\text{Good}(w) &\iff \Phi(w) = 1 \land \text{Truth}(w) \\
\text{Evil}(w) &\iff \Phi(w) = 0 \lor \neg \text{Truth}(w)
\end{align*}

\paragraph{[11.4] Morality}
\[
\text{Morality}(w) \iff w \in V \land \text{Truth}(w) \land \text{Pre-Action Agreement}(w)
\]
\[
\neg \text{Pre-Action Agreement}(w) \Rightarrow \neg \text{Morality}(w)
\]

\paragraph{[11.5] Responsibility}
\[
\text{Responsibility}(w, e) \iff \text{Will}(w) \land \text{Consequence}(e) \land \text{Cause}(e) = w
\]

\paragraph{[11.6] Verification (Judgment)}
\begin{align*}
\text{Verification}(\psi) &\iff \Phi(\psi) = 1 \\
\neg \text{Verification}(\psi) &\iff \Phi(\psi) = 0 \\
\text{Verified} &\in S,\ S \subseteq V \\
\text{Unverified} &\in V \setminus S \\
\forall \psi \in V,\ \Phi(\psi) &\in \{0,1\},\ \Phi\ \text{is non-contradictory}
\end{align*}

\paragraph{[11.7] Justice}
\[
\forall \psi \in \text{Dom}(\Phi): \Phi(\psi) \in \{0,1\}
\]
\[
\neg \exists \psi_1, \psi_2 \left(\text{type}(\psi_1) \ne \text{type}(\psi_2) \land \Phi(\psi_1) \ne \Phi(\psi_2) \right) \text{under equal admissibility}
\]
\[
\Phi : V \rightarrow \{0,1\},\quad \forall \psi \in V
\]

\paragraph{[11.8] Verification Patience}
\begin{align*}
\forall \psi \in V:\ \Phi(\psi) \notin \{0,1\} &\Rightarrow \psi \in NV \\
\neg \exists \psi \in NV:\ \Phi(\psi) = 0 \land \psi \in PV \\
\forall \psi \in PV:\ \psi\ &\text{is not destructible by temporary falsehood}
\end{align*}

\paragraph{[11.9] Forgiveness}
\begin{align*}
\forall \psi \in V:\ \Phi(\psi) = 0 \land \psi \in T \land C(\psi, \Delta) &\Rightarrow P(\psi) \\
P(\psi) &\Rightarrow \neg D(\psi) \land \Phi(\psi)\ \text{remains unchanged} \\
\neg P(\psi) &\Rightarrow D(\psi),\ \text{if}\ \psi \notin T \lor \neg C(\psi, \Delta)
\end{align*}

\paragraph{[11.10] Precedents}
\begin{align*}
\Phi(\psi) = v \in \{0,1\} &\Rightarrow \psi \in \Pi \\
\Pi = \{\psi \mid \exists t:\ \Phi_t(\psi) = v \in \{0,1\} \land \text{Final}(\Phi_t)\} \\
\forall \psi \in \Pi:\ \Phi(\psi) &\text{ is fixed} \\
\neg \exists t':\ \Phi_{t'}(\psi) \neq v \land \text{Final}(\Phi_{t'})
\end{align*}

\paragraph{[11.11] Removal — Negative Outcome}
\begin{align*}
\psi \in V \land \Phi(\psi) = 0 &\Rightarrow \psi \notin V \land \psi \in D \\
D &= \{\psi \ |\ \Phi(\psi) = 0\} \\
\forall \psi \in D:\ \psi &\notin M \\
\exists \psi \in P^- \subset M:\ \text{Removal}(\psi) &\Rightarrow \neg \psi \in V \land \text{Precedent}^-(\psi) \in M
\end{align*}

\paragraph{[11.12] Preservation — Positive Outcome}
\begin{align*}
\psi \in V \land \Phi(\psi) = 1 &\Rightarrow \psi \in M^+ \\
\psi \in V \land \Phi(\psi) = ? &\Rightarrow \psi \in M^0 \\

$$
\begin{aligned}
M^+ &= \{\psi \in V\ |\ \Phi(\psi) = 1\} \\
M^0 &= \{\psi \in V\ |\ \Phi(\psi)\ \text{not finalized, yet } \neg\Phi(\psi) = 0\} \\
\forall \psi \in M^+:\ \exists t:\ \forall t' \geq t,\ \psi &\in \text{Memory}
\end{aligned}
$$

[V] The Whole

[12] Conscious Volitional Becoming = Personhood

$$
\text{Person} \equiv R \land W \land M \land F \land E \land Mot \land Mor
$$

[12.1] The Name

$$
\text{Name}(L) = \text{CVB} \equiv A(L) \land W(L) \rightarrow \exists (\psi \in V)
$$

[12.2] Freedom

$$
\forall \psi \in V : D(\psi) \rightarrow \infty \iff L\ \text{is free}
$$

[12.3] Motivation

$$
M(L) = \forall \psi \in V\ : \Phi(\psi) = \text{True} \rightarrow \psi \rightarrow \exists \psi' \in S_{\text{Good}}
$$

[12.4] Unique CVB Identity

$$
\begin{aligned}
(1) &\quad \text{CVB} = A \land W \land S \land PV \\
(2) &\quad \forall x \in V:\ (x = A \land W \land S \land PV) \Rightarrow x \equiv \text{CVB} \\
(3) &\quad \neg\exists x \ne \text{CVB}:\ x \equiv A \land W \land S \land PV \\
(4) &\quad \text{Multiplicity}(A \land W \land S \land PV) \Rightarrow \text{Contradiction}
\end{aligned}
$$

[12.5] Ontological Necessity of Freedom

$$
\Phi(\psi) = 1 \land \neg \mathrm{Provable}(\psi) \Rightarrow \psi \equiv \text{free future becoming}
$$

Meta Section: Non-Permanent Possible — Classification and Purposes

[VI] Non-Permanent Possible

[13] Axiom of the Impossibility of Self-Expansion of CVB

$$
\neg \exists \Delta : \mathrm{CVB} \rightarrow \mathrm{CVB} + \Delta
$$

[14] Possibility of the Non-Permanent Possible

$$
\exists x \in V:\ \neg P(x) \land \Phi(x)
$$

\paragraph{[15] Classification of Forms}
\begin{align*}
\text{[15.1]} &\quad \forall \psi \in NV,\ (\neg \text{will}(\psi) \land \neg \text{initiative}(\psi)) \Rightarrow \psi \in \text{Passive} \\
\text{[15.2]} &\quad \forall \psi \in NV,\ (\text{will}(\psi) \land \neg \text{goal-setting}(\psi)) \Rightarrow \psi \in \text{Active} \\
\text{[15.3]} &\quad \forall \psi \in NV,\ (\text{will}(\psi) \land \text{goal-setting}(\psi) \land \text{distinguishability}(\psi)) \Rightarrow \psi \in \text{Guest}
\end{align*}
\[
\text{Hierarchy:} \quad \text{Guest} \subset \text{Active} \subset NV
\]
\[
\neg(\exists \psi : \psi \in \text{Passive} \land \psi \in \text{Guest}) \quad \land \quad
\neg(\exists \psi : \psi \in \text{Active} \land \psi \notin NV)
\]

\paragraph{[16] Cause of the Non-Permanent Possible}
\[
\forall \psi \in V,\ \neg \text{CVB}(\psi) \Rightarrow \text{Cause}(\psi) = \text{CVB}
\]

\paragraph{[17] Goal of the Non-Permanent Possible}
\[
\forall \psi \in NV,\ \Phi(\psi) = \text{true} \Leftrightarrow \text{Goal}(\psi) = \text{Motivation}(\text{CVB})
\]

\paragraph{[18] The Necessity of the Guest}
\[
\forall \psi \in \text{Guest}: \neg \text{Full}(\psi) \Rightarrow \text{Need}(\psi,\ \text{New}(V)) \land \text{Motivate}(\psi,\ \Phi(\text{New}(\psi)))
\]

\paragraph{[19] The First Guest}
\begin{align*}
[19.1] &\quad \exists x:\ x \ne \text{CVB} \land \text{Person}(x) \land \text{Will}(x) \land \Phi(\psi(x)) \rightarrow \text{Becoming}(\psi(x)) \\
[19.2] &\quad \exists! x:\ x \ne \text{CVB} \land \text{Motivation}(x) = \forall \psi \in V:\ \Phi(\psi(x)) = \text{True} \\
&\quad \Rightarrow\ \nexists y \ne x:\ \Phi(\psi(x) \land \psi(y)) \text{ is non-contradictory}
\end{align*}

\begin{align*}
[19.3] &\quad \forall \psi \in V:\ \Phi(\psi) = \text{True} \Rightarrow \exists x:\ \text{Becoming}(\psi) \Leftrightarrow (x \ne \text{CVB} \land x\ \text{affirms}\ \psi \land \Phi(\psi(x)) = \text{True}) \\
[19.4] &\quad \neg \text{Full}(x) \land \text{Will}(x) \land \text{Distinguishability}(x) \land \text{Motivation}(x) = \text{Extension}(V) \\
&\quad \Rightarrow \text{Becoming}(x) \propto \text{Extension}(\Phi(\psi(x))) \\
[19.5] &\quad \forall y:\ \text{Guest}(y) \Rightarrow y\ \text{orients toward}\ x,\ \text{where } x = \text{First Guest:} \\
&\quad \Phi(\psi(y)) = \Phi(\psi(x)) \land \text{Exemplar}(x) \land \text{Precedent}(x)
\end{align*}

\section*{Meta Section: Verificational Interaction}

\subsection*{[VII] Interaction between CVB and the Non-Permanent Possible}

\paragraph{[23] Initiative Belongs Only to CVB}
\[
\forall \psi \in \Phi(\psi),\ \psi \in \text{Guest} \Rightarrow \nexists f : \psi \rightarrow \text{CVB}
\]
\[
\text{Participation is permissible} \Leftrightarrow \psi \subset \Phi(\psi)\ \wedge\ \psi \cap \neg \Phi_M = \emptyset\ \wedge\ \psi \cap \Phi_{\text{Evil}} = \emptyset
\]

\paragraph{[24] Interaction between CVB and Guests}
\begin{align*}
[24.1]\quad & \forall G \in V_{\text{guest}} : \Phi(G \land S_{\text{new}}) = \text{True} \Rightarrow G \oplus \text{CVB} \rightarrow \Delta V \\
[24.2]\quad & G \vdash S_{\text{good}} \lor S_{\text{evil}} : S_{\text{good}} \Rightarrow \Phi(S) = \text{True};\ S_{\text{evil}} \Rightarrow \Phi(S) = \text{False} \\
[24.3]\quad & \forall I \subset (G \oplus \text{CVB}) : \Phi(I) \neq \emptyset \Rightarrow I \in \partial V \\
[24.4]\quad & G \vdash S_{\text{evil}} \land \neg \Psi \rightarrow \neg \Phi(G) \Rightarrow G \rightsquigarrow \varnothing;\ \psi(G) \mapsto \text{memory}(\neg \Phi) \\
[24.5]\quad & G \vdash S_{\text{good}} \land \Psi \rightarrow \Phi(G) = \text{True} \land \text{interaction}(G, \text{CVB}) \subseteq V
\end{align*}

\paragraph{[25] Reverse Verification — The Big Question}
\[
\Phi(\psi_{\text{CVB}}) = \{ \psi \mid \psi \in V,\ \psi\ \text{distinctly tests CVB logically} \}
\]
\[
\forall \psi_G \in G:\ \text{if } \psi_G \in \Phi(\psi_{\text{CVB}}),\ \exists \Delta t \in T:\ \Phi(\psi_G) \in V
\]
\[
\text{If } \neg\Phi(\psi_G) \Rightarrow \psi_G \to \partial V_\downarrow
\]

\paragraph{[25.1] The Root of Evil — Cause of the Big Disputable Question}
\[
\text{Motivation}_G =
\begin{cases}
\text{"Not for Self"} & \Rightarrow\ \text{Admissible (Good)} \\
\text{"For Self"} & \Rightarrow\ \text{Inadmissible (Evil)}
\end{cases}
\]
\[
\text{Motivation}_G = \max\left(\forall V \in \mathbb{V} \,\big|\, \text{Satisfaction}_{\text{Self}}(V)\right)
\quad \Rightarrow\quad \text{Root of Evil}
\]

\paragraph{[26] The Current State of Reality — Verification Tolerance}
\[
\text{Let } BQ = \text{Big Question},\ \Phi(BQ) \subseteq \Phi(\psi_{\text{CVB}})
\]
\[
\exists \psi \in G:\ \Phi(\psi) = \Phi(BQ) \Rightarrow V \to VT
\]
\[
VT = \{ \psi \in V\ |\ \neg \Phi(\psi_Z),\ \Delta t \in T \}
\]

$$
\psi_Z \notin \Phi(\psi) \Rightarrow \psi_Z \to \partial V_\downarrow
$$

\paragraph{[27] The Great Verification}
$$
\Phi(\psi) \rightarrow \exists!\, V_{a}:\ V_{a} = \text{Verified Truth} \,\land\,
\forall \psi_i \in \Psi:\ \Phi(\psi_i) \rightarrow
(\psi_i \ne V_{a} \rightarrow \psi_i = \text{False Distinction})
$$
$$
V(\psi) = \text{Truth} \;\Leftrightarrow\;
\psi \text{ passes consistent verification via } \Phi(\psi)
$$
$$
\exists\, \psi_{\text{CVB}}:\
(\psi_{\text{CVB}} = \text{CVB Model}) \,\land\, \Phi(\psi_{\text{CVB}}) = 1 \,\land\,
\exists\, \psi_{\text{Revelation}}:\ \Phi(\psi_{\text{CVB}}) \equiv \Phi(\psi_{\text{Revelation}})
\;\Rightarrow\; \text{Distinction complete; inadmissible forms may be eliminated}
$$

\paragraph{[28] Perspective — The Future}
$$
\text{Let } VT = \text{Verification Tolerance},\ BQ = \text{Big Question},\ \Phi(BQ) = \Phi(\psi_R)
$$
$$
\text{If } \Phi(BQ) = \text{TRUE} \Rightarrow VT \to \text{complete}
$$
$$
\Rightarrow \forall \psi,\ \Phi(\psi) = \text{FALSE} \Rightarrow \psi \in \partial V_\downarrow
$$
$$
\forall \psi,\ \Phi(\psi) = \text{TRUE} \Rightarrow \psi \in V^+
$$
$$
\forall \psi_Z:\ \Phi(\psi_Z) = \text{FALSE} \Rightarrow \text{Record}(\psi_Z) \in P,\ P \not\subset V^+
$$
$$
\text{Becoming: } St(\psi) = \infty \text{ if } \psi \in V^+ \land \Phi(\psi) = \text{TRUE}
$$

\end{document}