RSCE Codex - Phase 1 - rsce.py (ASC2 Clean)

```
from weights import compute_weight
from seed_recovery import find_seed
import math
class RSCEngine:
    def __init__(self, base_radius=1.0, tension_k=1.0, freq_gate=888.0, threshold=0.1):
        self.base_radius = base_radius
        self.tension_k = tension_k
        self.freq_gate = freq_gate
        self.threshold = threshold
    def map_to_axes(self, observed):
        positions = \{"H1": (1, 0), "H2": (-1, 0), "O": (0, 0)\}
        return positions
    def frequency_check(self, observed):
        return True
    def tension(self, p1, p2):
        dx = p1[0] - p2[0]
        dy = p1[1] - p2[1]
        distance = math.sqrt(dx**2 + dy**2)
        return self.tension k * distance
    def mirror_axes(self, p, axis):
        if axis == "x":
           return (-p[0], p[1])
        elif axis == "y":
            return (p[0], -p[1])
        return p
    def full_axes(self):
        return ["x", "y"]
    def execute(self, observed):
        if not self.frequency_check(observed):
            raise ValueError("Slice out of resonance gate")
        positions = self.map_to_axes(observed)
        full = set(positions.values())
        weights = {}
        for p in list(full):
            for axis in self.full axes():
                mirror_p = self.mirror_axes(p, axis)
                if self.tension(p, mirror_p) < self.threshold:</pre>
                    full.add(mirror_p)
                    weights[mirror_p] = compute_weight(mirror_p, self.base_radius)
        seed = find_seed(full)
```

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return seed, full, weights