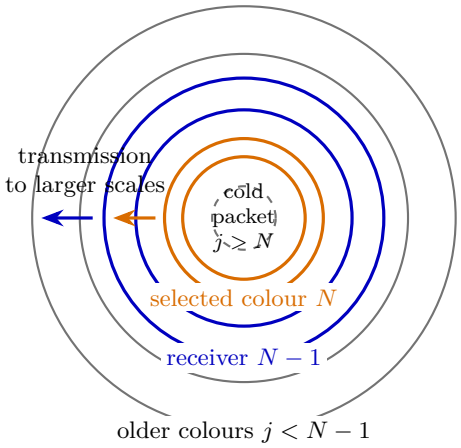

One fixed datum.

$$A_j := \beta^{j-1}, \quad R_j := q^{j-1}, \quad \alpha := q^K.$$

$$\omega_0 := \sum_{j \geq 1} A_j \big[W(\cdot/R_j) + \alpha \Phi_{\vartheta_j}(\cdot/R_j) \big].$$

Viscosity chooses a depth.

$$\nu_N := q^{3/2} A_N R_N^2.$$

$$\kappa_j(\nu_N) := \frac{\nu_N}{A_j R_j^2} = q^{3/2} (\beta q^2)^{N-j}.$$

Activation descends in index.

$$N \longrightarrow N-1 \longrightarrow \cdots \longrightarrow 1.$$

In physical space the corresponding radii increase: $R_N < R_{N-1} < \cdots < R_1$.

Figure 1: The scale geometry for viscosity ν_N with $N \geq 2$. Each pair of solid rings indicates the derivative and seed collars near ρR_j and R_j for one scale. These are not disjoint vorticity supports: the radial profiles occupy nested disks with overlapping constant cores, and all colours interact through the same velocity. The picture is schematic and not to scale. Colours with $j > N$ form the deep diffusing packet; they are controlled collectively rather than discarded. The seed phases in ω_0 are fixed before the final vanishing-viscosity subsequences are extracted.

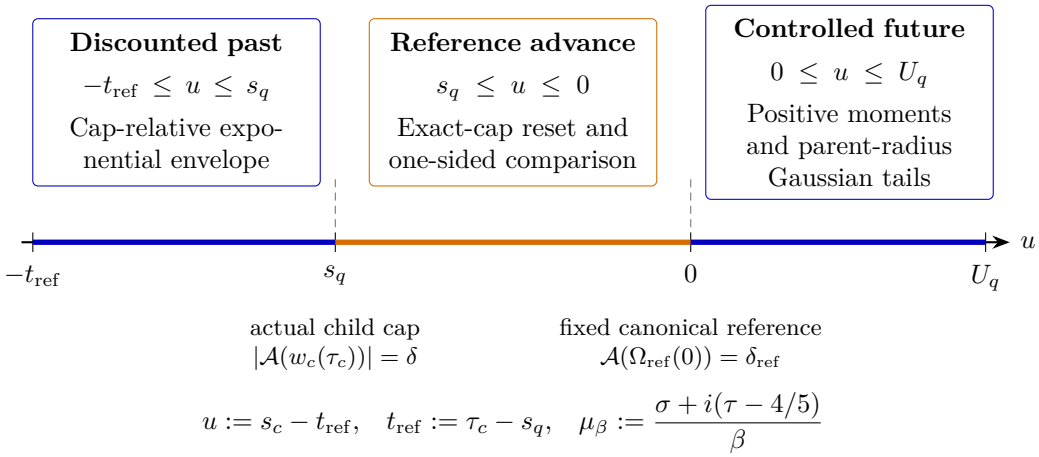

Figure 2: The three pieces of the source-history argument, in the child's translated canonical clock s_c. The colour w_c is expressed in its declared older-core rotating frame. Here s_q is the canonical shrinking-cap time and τ_c is the actual child's cap time; therefore the actual cap is at $u = s_q$, while the reference is at $u = 0$. The endpoint U_q is the end of a controlled prospective parent interval. Zero extension beyond it does not describe the actual infinite-time future. Segment lengths are schematic.

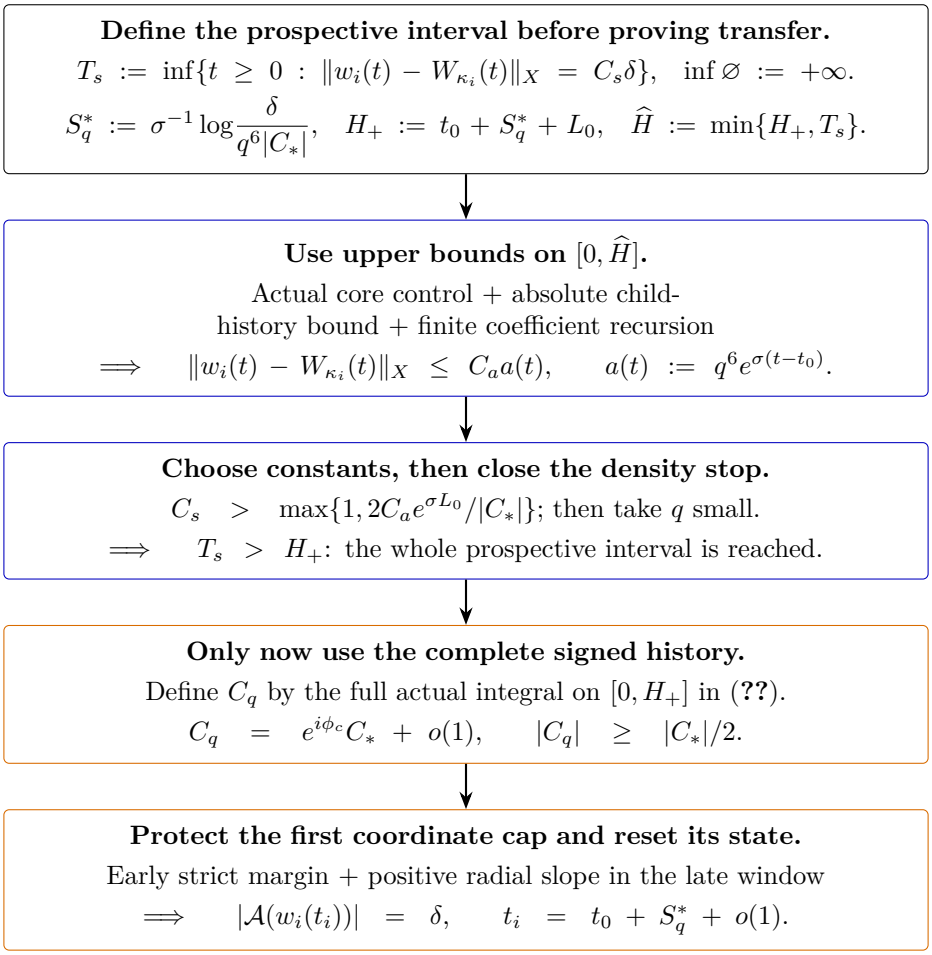

Figure 3: Logical order of the actual receiver argument. Here i is the receiver, $c = i + 1$ is its child, t is receiver time, t_0 is the child's reference time in receiver units, w_i is in its declared older-core rotating frame, and $W_{\kappa_i}(t) := e^{\kappa_i t \Delta} W$. The density stop T_s and the coordinate cap t_i have different definitions. Upper input bounds close T_s before a signed lower bound on C_q is used; thus the prospective interval is not justified by a coefficient that itself requires that interval. The positive slope is asserted only in the protected late window.

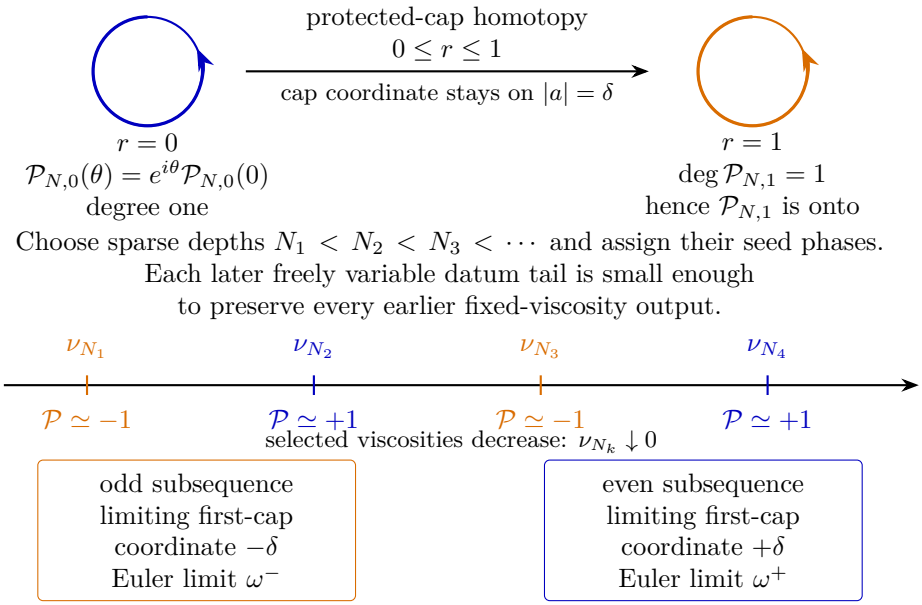

Figure 4: Phase shooting and the final sparse diagonal construction. For the homotopy datum with the Nth seed phase θ and all other seed amplitudes multiplied by r, let $a_{N,r,\theta}(t) := \int T_{\mathrm{adj}}(x)\omega^{\nu_N}_{1;N,r,\theta}(t,x)\,\mathrm{d}x$, $\tau_{N,r,\theta} := \inf\{t \in [0,T_f] : |a_{N,r,\theta}(t)| \ge \delta\}$, and $\mathcal{P}_{N,r}(\theta) := a_{N,r,\theta}(\tau_{N,r,\theta})/\delta$. The circles depict degree, not a claimed pointwise formula for the map at $r = 1$. The signs below the viscosity axis are final outputs within vanishing tolerances; limits have the exact signs. The two limiting cap times need not coincide.