$[scale = 0.8][thick](-4,-1) - -(-4,1); at(-4.3,1)$

$\langle\pi'\rangle$; at (-4.3, -1) π';

[-¿, thick] (-4,-1) to [out=0, in=180] (-4.5,0); [red] (-4,0) circle (2pt); at (-4.9, 0) $f^{'t}$;

at (-5,-2) orange$\pi(e)$;

[thick] (1.5,-1) – (1.5,1); at (-0.6, 1) $\neg\langle\pi'\rangle$; at (0.6, 1) $_i(\pi')$; at (-0.6, -1) $\neg\langle\pi'\rangle$; at (0.6, -1) $\neg\langle\pi'\rangle$;

[red] (-1.5,0) circle (2pt); at (-1.7, 0) blue=; at (-1.7, -1) blueγ^t;

[-¿, blue, thick] (1.5,1) to [out=-180, in=0] (-1.8,0); [red] (1.5,0) circle (2pt); at (2.1, 0) blue=; at (2.1, -1) blueγ^t;

at (3.5, 1) $\neg\langle\pi'\rangle$; at (4.5, 1) $_i(\pi')$; at (5.5, 1) $\neg\langle\pi'\rangle$; at (6.5, 1) $_i(\pi')$; at (7.5, 1) $\neg\langle\pi'\rangle$; at (8.5, 1) $_i(\pi')$; at (9.5, 1) ϕ;

at (3.5, -1) $\neg\langle\pi'\rangle$; at (4.5, -1) $\neg\langle\pi'\rangle$; at (5.5, -1) $\neg\langle\pi'\rangle$; at (6.5, -1) $\neg\langle\pi'\rangle$; at (7.5, -1) $\neg\langle\pi'\rangle$; at (8.5, -1) ϕ;

[thick] (9.5,-1) – (9.5,1); at (10.5, 1) $same_i(\pi)$; at (10.5, -1) $e'' = e^{t''}$; at (10.5, -2) orange$e$;

at (-4.8, 0) i=j;

Case $\pi = i\varphi \cdot \pi'$ *and* $t, e'' \models \phi$.