Kijmn is given by Eq.(44) of Teaney et.al.

(ignoring bulk viscosity):

 $\chi''jmn = 2\eta \quad \chi''j \quad \left(\Delta^{\mu}S_{\Delta}^{\nu\sigma} - \frac{1}{4} \Delta^{\mu\nu}\Delta^{S\sigma} \right) \chi^{mn}_{S\sigma}$ $\chi''jmn = 2\eta \quad \chi''j \quad \left(\Delta^{\mu}S_{\Delta}^{\nu\sigma} - \frac{1}{4} \Delta^{\mu\nu}\Delta^{S\sigma} \right) \chi^{mn}_{S\sigma}$ $\chi''jmn = 2\eta \quad \chi''j \quad \left(\Delta^{\mu}S_{\Delta}^{\nu\sigma} - \frac{1}{4} \Delta^{\mu\nu}\Delta^{S\sigma} \right) \chi^{mn}_{S\sigma}$ $\chi''jmn = 2\eta \quad \chi''j \quad \left(\Delta^{\mu}S_{\Delta}^{\nu\sigma} - \frac{1}{4} \Delta^{\mu\nu}\Delta^{S\sigma} \right) \chi^{mn}_{S\sigma}$

in indices Me V.

=> Kimn = 22 Kin (((")) - L (")) Kinn

STEP I: To Generale "Local rest frame" random numbers which are purely spatial:

Note $\langle \lambda_{\text{ref}}^{\times} \lambda_{\text{ref}}^{\otimes} \rangle \neq 0$.

Generale independent rendom numbers
$$3i$$
 $\langle 3^{ij} 3^{kl} \rangle = 42T \left(\frac{5^{ik} 5^{3k} + 5^{il} 5^{3k}}{2} \right)$

and subtreat the trace,

 $7ii$
 $= 3ii - 5ij 3^{ik}$

STEP 2: Boost by relocity
$$-\vec{v}$$

$$\lambda^{\mu\nu} = \Lambda^{\mu} \alpha \Lambda^{\nu} \beta \lambda^{\alpha\beta}_{LRF},$$
(note $\lambda^{\alpha\alpha}_{LRF}$ is 0).

STEP 3: Oblain noise
$$\xi^{ij}$$
 in density frame:
$$\xi^{ij} = \chi^{ij} \lambda^{nv}$$