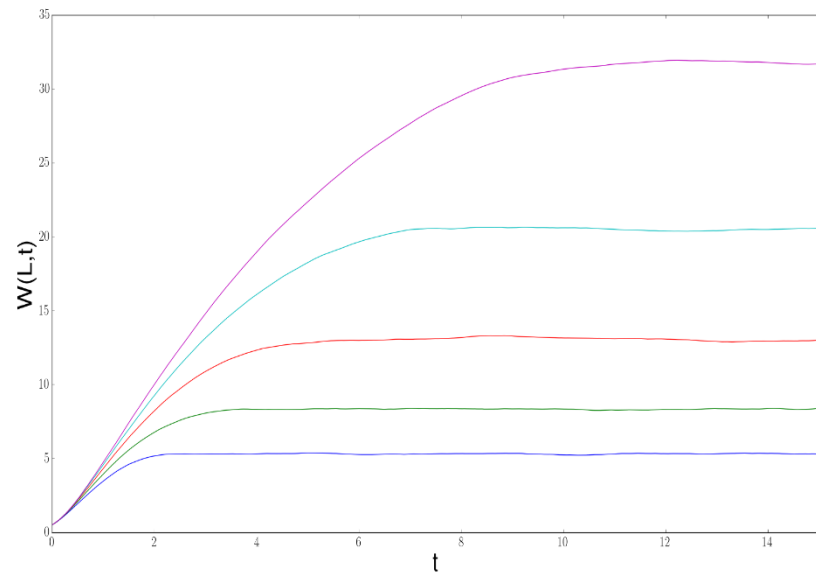


# Scaling for Interface Movement in a Random Medium

(Siddharth Mansingh, NISER)

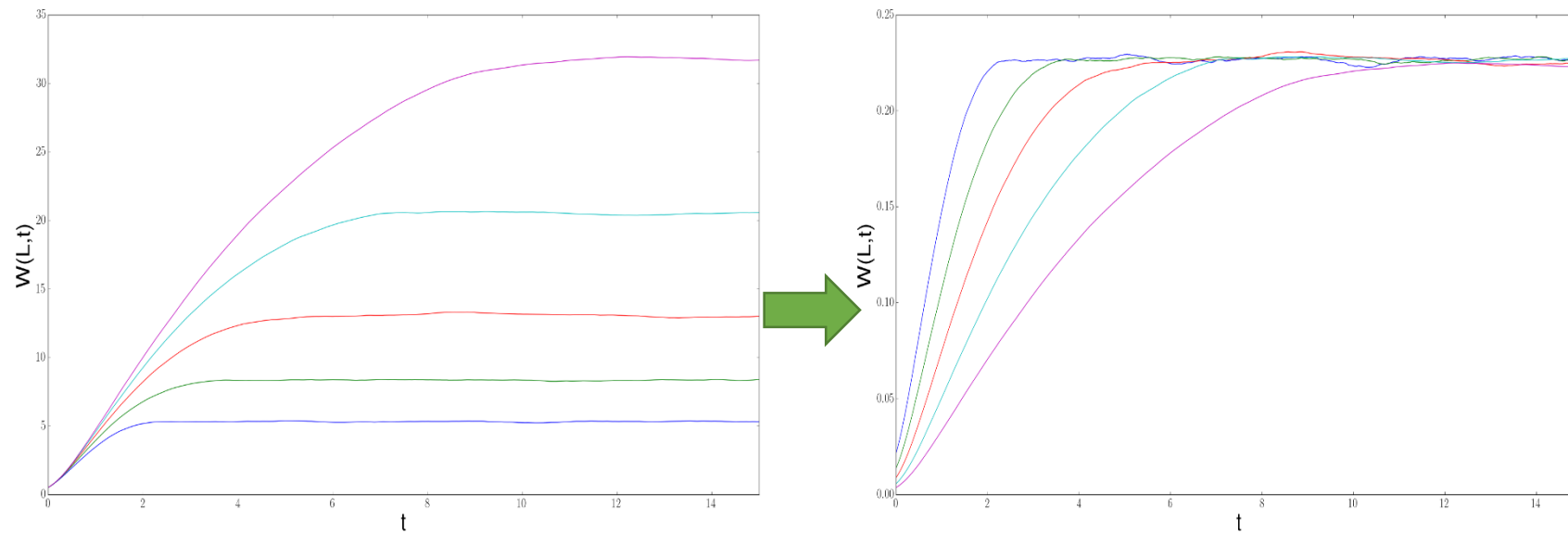
Shown below: Interface width  $W(L,t)$  at time  $t$  in a system of size  $L$



# Scaling for Interface Movement in a Random Medium

(Siddharth Mansingh, NISER)

Shown below: Interface width  $W(L,t)$  at time  $t$  in a system of size  $L$

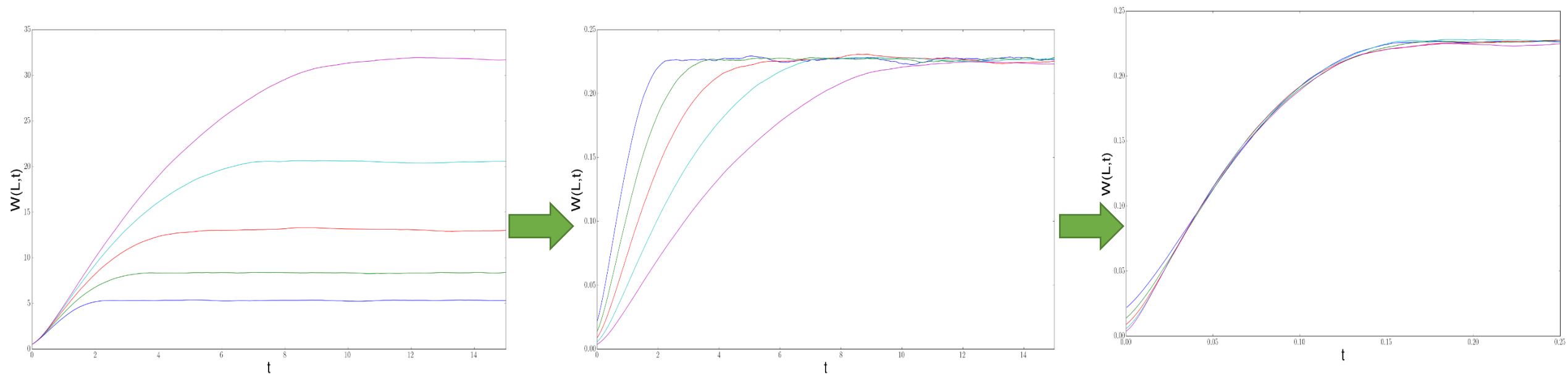


Squash by a factor  $L^\chi$  with  $\chi = 0.63$

# Scaling for Interface Movement in a Random Medium

(Siddharth Mansingh, NISER)

Shown below: Interface width  $W(L,t)$  at time  $t$  in a system of size  $L$



Squash by a factor  $L^\chi$  with  $\chi = 0.63$

Squish by a factor  $L^z$  with  $z = 1.55$

$$W(L,t) \sim L^\chi Y\left(\frac{t}{L^z}\right)$$

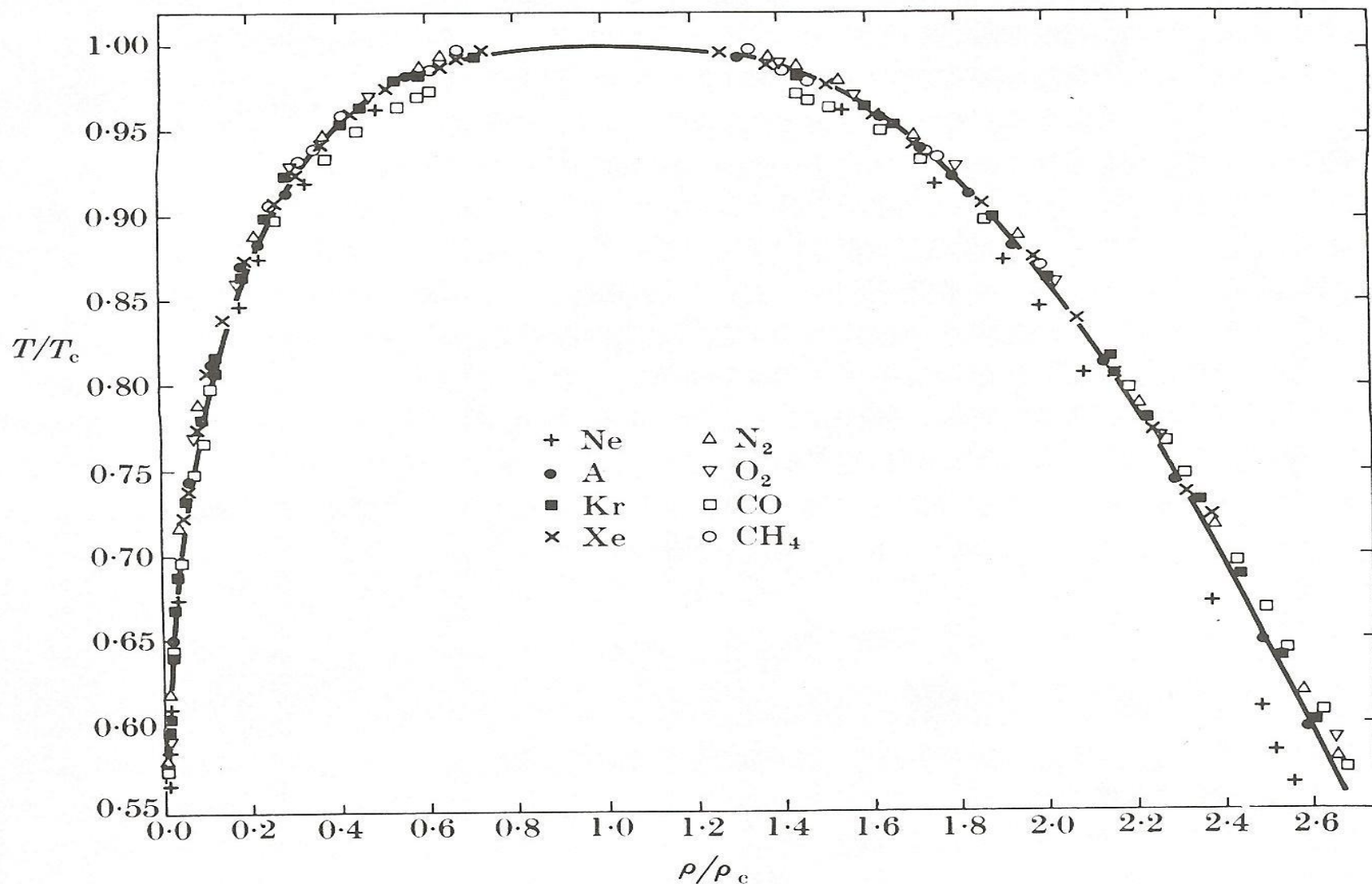


FIG. 1.8. Measurements on eight fluids of the coexistence curve (a reflection of the  $P\rho T$  surface in the  $\rho T$  plane analogous to Fig. 1.3). The solid curve corresponds to a fit to a cubic equation, i.e. to the choice  $\beta = \frac{1}{3}$ , where  $\rho - \rho_c \sim (-\epsilon)^\beta$ . From Guggenheim (1945).

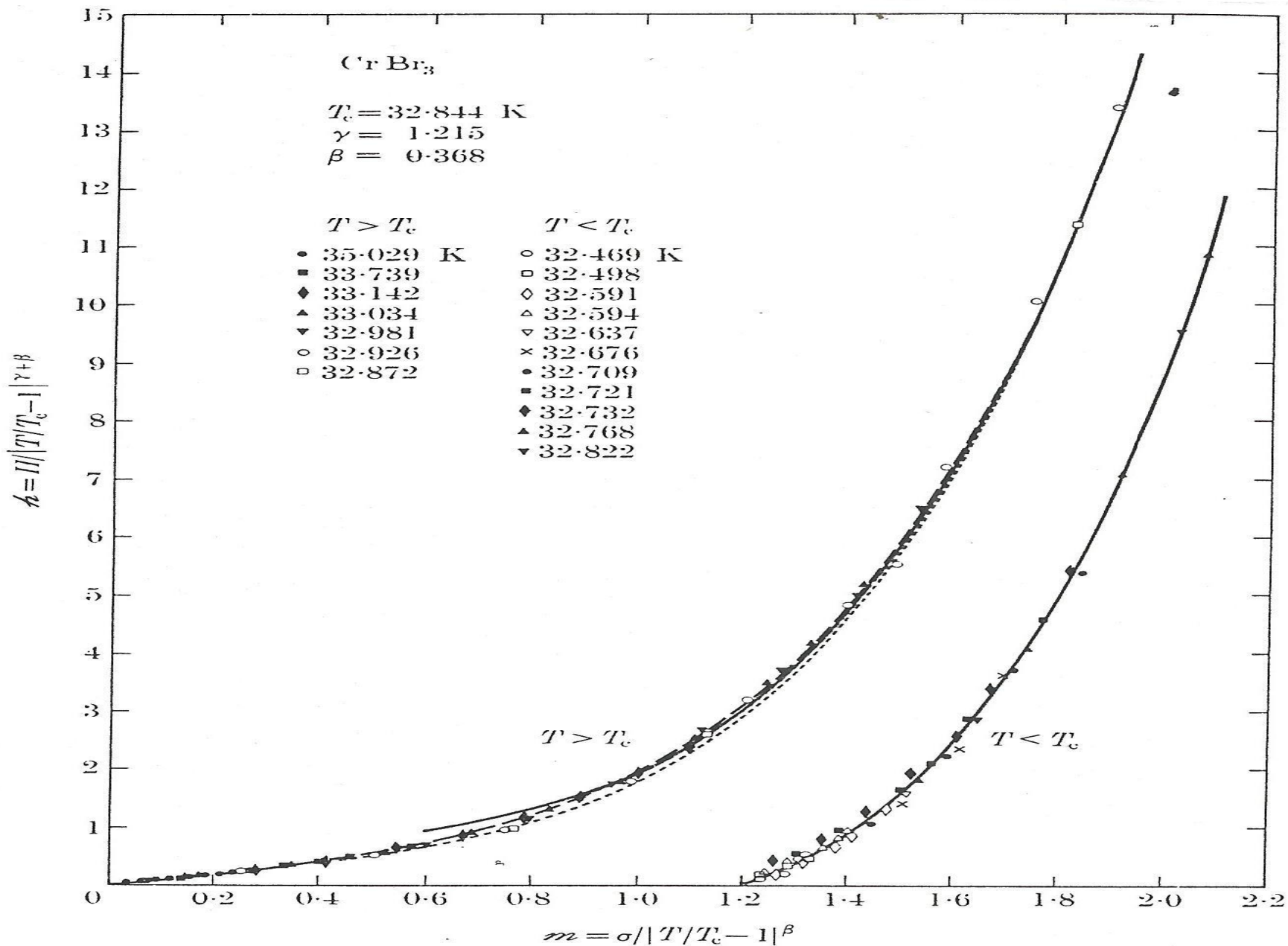


FIG. 11.4. Scaled magnetic field  $h$  is plotted against scaled magnetization  $m$  for the insulating ferromagnet  $\text{CrBr}_3$ , using data from seven supercritical ( $T > T_c$ ) and from eleven subcritical ( $T < T_c$ ) isotherms. Here  $\sigma \equiv M/M_0$ . After Ho and Litster (1969).