## **Progress of quantum statistics** Minoru Takahashi (Toho University)

I review numerical and analytical investigations of one dimensional solvable models after the derivation of thermodynamic Bethe ansatz equations. For one-dimensional ferromagnet, numerical calculation of TBA equations concluded that  $\gamma = 2$  and  $\alpha = -1/2$ . This relates to the spin wave theory for low-dimensional magnets and experimental realization of organic ferromagnets. For spin 1/2 one-dimensional antiferromagnet, we predicted theoretically the logarithmic anomaly of susceptibility curve.