

Abstract Submitted
for the MAR16 Meeting of
The American Physical Society

Complex root networks of Chinese characters PO-HAN LEE, Affiliated Senior High School of National Taiwan Normal University, Taipei, Taiwan, JIA-LING CHEN, Chinese Department, National Taiwan Normal University, Taipei, Taiwan, PO-CHENG WANG, Institute of Physics, Academia Sinica, Nankang, Taipei, Taiwan, TING-TING CHI, Chinese Department, National Taiwan Normal University, Taipei, Taiwan, ZHI-REN XIAO, ZIH-JIAN JHANG, Physics Department, National Taiwan University, Taipei, Taiwan, YEONG-NAN YEH, Institute of Mathematics, Academia Sinica, Nankang, Taipei, Taiwan, YIH-YUH CHEN, Physics Department, National Taiwan University, Taipei, Taiwan, CHIN-KUN HU, Institute of Physics, Academia Sinica, Taipei, Taiwan — There are several sets of Chinese characters still available today, including Oracle Bone Inscriptions (OBI) in Shang Dynasty, Chu characters (CC) used in Chu of Warring State Period, Small Seal Script in dictionary Shuowen Jiezi (SJ) in Eastern Han Dynasty, and Kangxi Dictionary (KD) in Qing Dynasty. Such as Chinese characters were all constructed via combinations of meaningful patterns, called roots. Our studies for the complex networks of all roots indicate that the roots of the characters in OBI, CC, SJ and KD have characteristics of small world networks and scale-free networks.

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Date submitted: 04 Nov 2015

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