

**From:** [Chen, Lily \(Fed\)](#)  
**To:** [Clark, Charles W Dr. \(Fed\)](#); [Romine, Charles H \(Fed\)](#)  
**Subject:** RE: ARPANET Primer  
**Date:** Wednesday, January 25, 2017 4:26:00 PM

---

Hi, Charles;

Thanks for sharing. Yes. I met Jianxin Chen.

Lily

---

**From:** Clark, Charles W Dr. (Fed)  
**Sent:** Wednesday, January 25, 2017 3:26 PM  
**To:** Romine, Charles H (Fed) <charles.romine@nist.gov>  
**Cc:** Chen, Lily (Fed) <lily.chen@nist.gov>  
**Subject:** RE: ARPANET Primer

Glad you liked it Chuck.

While I'm on the subject of delightful reading, here is a draft I got from Andrew Childs last week. I love this paper because it addresses the most beautiful of all subjects – the approximation of functions by polynomials! – and shows that there is a quantum computational advantage.

The first author, Jianxin Chen, is one of our Hartree Fellows. Lily, I recall that you met him when a group of them came to visit NIST a year or so ago.

Best regards –

Charles

Charles W. Clark  
NIST Fellow  
Fellow, Joint Quantum Institute  
National Institute of Standards and Technology and the University of Maryland  
B168 Metrology Building  
100 Bureau Drive, Stop 8420  
Gaithersburg, MD 20899-8420 USA  
(301)975-3709 Fax: (301)208-6937  
Email: [charles.clark@nist.gov](mailto:charles.clark@nist.gov)  
Personal page: <http://j.mp/JQIcwc>  
Joint Quantum Institute: <http://jqj.umd.edu>  
Mathematical Elements of Quantum Physics <http://bit.ly/2017quantum>  
Quantum Measurement Division: <http://j.mp/QMDN15T>  
SURF III synchrotron: <http://j.mp/surf111>  
NIST Digital Library of Mathematical Functions: <http://dlmf.nist.gov>  
NIST Periodic Table of the Elements: <http://j.mp/NISTPT>  
"Exploring Quantum Physics" on Coursera: <http://j.mp/ExploreQP>  
The Neutron Observatory: <http://j.mp/N3utr0n>

---

**From:** Romine, Charles H (Fed)  
**Sent:** Wednesday, January 25, 2017 13:45  
**To:** Clark, Charles W Dr. (Fed) <[charles.clark@nist.gov](mailto:charles.clark@nist.gov)>  
**Subject:** ARPANET Primer

Charles,

Thanks much for allowing me to borrow the ARPANET TENEX Primer pamphlet – a really great read, and a great representative of IT history. I'm returning it to you immediately, since I found a PDF copy on the net. You should also know that Amazon's only copy available is through a third party (naturally!) and is priced at \$109.00.

Many thanks!

Chuck

--

Charles H. Romine, Director  
Information Technology Laboratory  
National Institute of Standards and Technology  
100 Bureau Drive, Mail Stop 8900  
Gaithersburg, MD 20899-8900  
Phone: 301-975-2900, FAX: 301-975-2378  
Email: [cromine@nist.gov](mailto:cromine@nist.gov)  
[www.itl.nist.gov](http://www.itl.nist.gov)

Executive Assistant:

Lisa Marth, 301-975-2900, [lisa.marth@nist.gov](mailto:lisa.marth@nist.gov)