

CoE-MaSS weekly seminar series

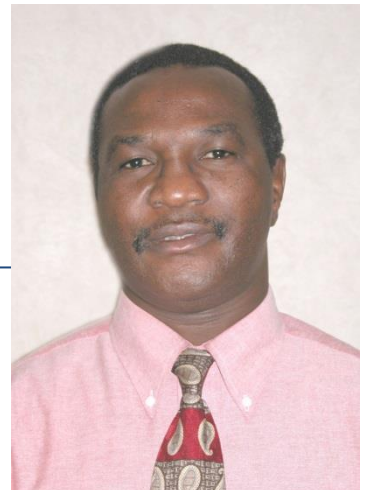
THE DST-NRF CENTRE OF EXCELLENCE IN MATHEMATICAL AND
STATISTICAL SCIENCES (CoE-MaSS) WOULD LIKE TO PRESENT
A SEMINAR BY

Dr Alain Togbe

*(Mathematics Department, Purdue University North Central,
Westville, USA)*

*“On the x -coordinates of Pell equations which are in some
sequences”*

Friday, 20 May 2016
10h30-11h30



Broadcast live from:
Videoconferencing Facility, 1st Floor
Mathematical Sciences Building, Wits West Campus

How to connect to this seminar remotely:

You can connect remotely via Vidyo to this research seminar by clicking on this link:
<http://wits-vc.tenet.ac.za/flex.html?roomdirect.html&key=y0SSOwFsvsidbzg4qFdWXvvQtyl>
and downloading the Vidyo software before the seminar.

You must please join in the virtual venue (called “CoE Seminar Room (Wits)” on Vidyo)
strictly between **10h00-10h15**. No latecomers will be added.

Important videoconferencing netiquette:

Once the seminar commences, please mute your own microphone so that there is no feedback from your side into the virtual room. During the Q&A slot you can then unmute your microphone if you have a question to ask the speaker.

Title:

On the x -coordinates of Pell equations which are in some sequences.

Presenter:

Prof Alain Togbe, Mathematics Department, Purdue University North Central, Westville, USA; atogbe@pnw.edu

Abstract:

Abstract: For an integer $d \geq 2$ which is not a square, we show that there is at most one value of the positive integer x participating in the Pell equations $x^2 - dy^2 = \pm 1, \pm 4$ which is a sequence such as rep-digits, Fibonacci numbers, Lucas numbers, ... except for a few values of d .

(This talk is based on joint papers with F. Luca, A. Dossavi-Yovo, and B. Kafle).