## Mathematics > Combinatorics

## Exponential triples

## Alessandro Sisto

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Using ultrafilter techniques we show that in any partition of \$\mathbb\{N\}\$ into 2 cells there is one cell containing infinitely many exponential triples, i.e. triples of the kind $\$ \mathrm{a}, \mathrm{b}, \mathrm{a}^{\wedge} \mathrm{b} \$$ (with $\$ \mathrm{a}, \mathrm{b}>1 \$$ ). Also, we will show that any multiplicative \$IP^*\$ set is an "exponential \$IP\$ set", the analogue of an \$IP\$ set with respect to exponentiation.

## Subjects: Combinatorics (math.CO)

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