1106-32-1505     **Ozcan Yazici\*** (`oyazici@syr.edu`). *Extension of plurisubharmonic functions with logarithmic growth.*

Let $X$ be an algebraic subvariety of $\mathbb{C}^n$ and $\overline{X}$ be its closure in $\mathbb{P}^n$. Coman-Guedj-Zeriahi proved that any plurisubharmonic function with logarithmic growth on $X$ extends to a plurisubharmonic function with logarithmic growth on $\mathbb{C}^n$ when the germs $(\overline{X}, a)$ in $\mathbb{P}^n$ are irreducible for all $a \in \overline{X} \setminus X$. In this talk we will consider $X$ for which the germ $(\overline{X}, a)$ is reducible for some $a \in \overline{X} \setminus X$ and we give a necessary and sufficient condition for $X$ so that any plurisubharmonic function with logarithmic growth on $X$ extends to a plurisubharmonic function with logarithmic growth on $\mathbb{C}^n$. (Received September 13, 2014)