1117-42-43 **Alexander (Oleksandr) V Tovstolis*** (oleksandr.tovstolis@ucf.edu), Department of Mathematics, 4393 Andromeda Loop N, Orlando, FL 32816, and **Xin Li** (xin.li@ucf.edu), Department of Mathematics, 4393 Andromeda Loop N, Orlando, FL 32816. *On Bernstein and Nikolskiĭ Type Inequalities, and Poisson Summation Formula in Hardy Spaces.*

We consider Hardy spaces $H^p(T_\Gamma)$ in tube domains over open cones ($T_\Gamma \subset \mathbb{C}^n$). Bernstein and Nikolskiĭ type inequalities for entire functions of exponential type K belonging to $H^p(T_\Gamma)$ are obtained. The sharpness of the constants in these inequalities is still an open question.

Another result for Hardy spaces $H^p(T_\Gamma)$ with $p \in (0,1]$ is the Poisson summation formula:

$$\sum_{m\in\Lambda} f(z+m) = \sum_{m\in\Lambda} \widehat{f}(m)\, e^{2\pi i(z,m)}, \quad \forall z \in T_\Gamma.$$

The formula holds without any additional assumptions. (Received December 22, 2015)