Fundamental Solutions of
Kohn Sub-Laplacians on Anisotropic
Heisenberg Groups and H-type Groups

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Abstract. We prove that the fundamental solutions of Kohn sub-Laplacians $\Delta + i\alpha \partial_t$, on the anisotropic Heisenberg groups are tempered distributions and have meromorphic continuation in $\alpha$ with simple poles. We compute the residues and find the partial fundamental solutions at the poles. We also find formulas for the fundamental solutions for some matrix-valued Kohn type sub-Laplacians on H-type groups.