**R2's Q1**: In vanilla SSL task. Sorry that we don’t have this experiment. Our thought is that if taking pseudo-labels as noisy labels, perhaps one may refer to the supervised re-weighting methods [A][B]. **Q2**: One issue of results[37], 52.8<53.8. This is because the training splits of dataset are different between SSFSC and FSC (see details in the Sec. 4.4 of [37]). On the FSC dataset, a big proportion of labeled data are used as unlabeled for sampling SSFSC tasks. Therefore, the total SSFSC training tasks contain less supervision (than FSC). **Q3**: State of the art SSL methods. Actually, we began our project by trying Virtual Adversarial Training (VAT) [15] which has been shown top-performing in most settings of vanilla SSL [18]. We found that VAT brings limited improvement, e.g., less than 1% on miniImageNet 1-shot, and it works slightly better for 5-shot. We think this is because of the high-variance of FSC classifiers trained with very limited supervision. In contrast, our method can greatly increase this supervision by carefully choosing and weighting high-confidence pseudo labels, and thus can make a visible improvement, e.g., 9% over the supervised baseline on miniImageNet 1-shot. We agree that distracting class is a challenge (kindly refer to R3’s Q5). One of our future works is to find out an effective way of deploying regularization-based SSL methods to tackle this.

**R3’s Q1**: “by us”. It means we implement the open-sourced MTL code on the tieredImageNet. **Q2**: Comparing with FSC. We agree this is unfair in terms of (1) the additional unlabeled data in each single SSFSC task or (2) the mutated labels on the whole dataset (kindly refer to R2’s Q2). For paper revision, we will preserve only the comparison to baseline supervised methods and remove others. We will add more results related to SSFSC, e.g., Figure B1. **Q4**: Vary module selections: “+recursive” or “+mixing”. Sorry for the confusion. “+recursive” and “+mixing” are actually the same method (LST) with different hyperparameters, not different modules. E.g. in 5-way, 1-shot setting, “+recursive” has 6 recursive stages, and every stage it uses 5 × 30 unlabeled samples. While, “+mixing” has only one stage, using 6 × 5 × 30 samples for once. **Q5**: Quantitative analysis for the number of distracting classes. Our experiment results in Figure B1 show that both our LST and related methods, Soft k-Means [22] and TPN [37], are obviously affected by distracting classes. Other observations are that (1) LST achieves top performances, especially more than 2% higher than TPN [37] at classNum = 7; (2) LST with less re-training steps, i.e., a smaller m value, works better for reducing the effect from a larger number of distracting classes. **Q6**: Require a large number of unlabeled samples. In the supplementary Table S1, we provided the results of using 5 unlabeled samples (LINE 22-30) for both our LST (w/o recursive) and related methods [22][37], validating our superiority in the low-data settings. Note that in the Table 2 of the main paper, we reported the results of LST (recursive,hard,soft) and related works using the same number of unlabeled data. **Q7**: Distracting classes in Formula 5. SWN for distracting classes. (1) Samples from distracting classes are mixed with other unlabeled data without distinction, thus have no special role in Formula 5. (2) SWN does reduce the effect of distracting classes. When comparing “recursive,hard” to “recursive,hard,soft” in Table 2 (w/D), we can see the improvements (2.3% ~ 5.2%) (soft = using SWN). **Q8**: Accuracy of pseudo label. Taking the miniImageNet 1-shot as an example, during meta-training episodes, we can see the accuracy growing from 47.0% (iter=0) to 71.5% (iter=15k). There are 6 recursive stages during meta-test. From stage-1 to stage-6, the average accuracy (of 600 meta-test episodes) increases from 63.6% (62.2% w/o soft weighting) to 68.8% (66.1% w/o soft weighting). Detailed numbers will be reported in our paper. **Q9**: Insufficient aspect. LST has some discrete hyperparameters (e.g., the numbers of hard selected samples and recursive stages) that are manually set. Our future work is to make them optimizable.

**R4’s Q2 (R3’s Q3)**: MTL helps SSFSC. MTL transfers the superior pre-trained DNN weights for efficient feature extraction in unseen classes. It is independent from the learning method, either supervised or semi-supervised, for base classifiers. Our implementations of MTL in three methods, [22][37] and ours, validate its efficiency for SSFSC. **Q1**: Without finetuning. Please kindly refer to Figure 3(a). “m = 40” means the number of re-training steps is equal to the number of total steps (40), i.e., without finetuning step. Its corresponding curve clearly drops after the 18-th iteration. **Q3**: Using other backbones/FSC approaches. We incorporate the 4CONV arch. of MAML [3] and the recent FSC method LEO [25] into our LST, respectively. For example, on tieredImageNet 1-shot, LST-MAML-4CONV outperforms TPN-4CONV[37] by 2.9% and 2.0%(w/D). LST-LEO-ResNet12 outperforms TPN-ResNet12 by 3.8% and 2.8%(w/D). Other results will be reported in the final paper. **Q3**: Sample statistics. For example, in 5-way, 1-shot case, we use 1 labeled and 20 unlabeled samples per class to meta-train SWN. In each meta-test task, we have 6 recursive (base)-training stages. At each stage, we select 100 samples (globally ranked by pseudo-labeling confidences) out of 5 × 30 unlabeled inputs, and then weight them by the SWN. If using distracting classes, we simply add 30 samples per distracting class to the input, without distinction. Please kindly refer to LINE 193-199 for more details.